

Electronic Components



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Electronic Components

□ Semiconductors

□ Semiconductor Information

UNDERSTANDING TRANSISTORS

All transistors registered with the Electronic Industries Association of Japan (EIAJ) are assigned an "S" number. The number consists of 5 elements,

ELEMENT 1

This number indicates the number of active internal or external connections minus one.

ELEMENT 2

Originally indicated that this device was registered with EIAJ, although now it is not the case.

ELEMENT 3

Polarity and applications.

- A - PNP High Frequency
- B - PNP Low Frequency
- C - NPN High Frequency
- D - NPN Low Frequency
- J - P Channel F E T
- K - N Channel F E T

ELEMENT 4

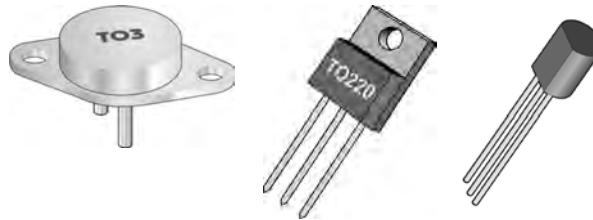
Serial number,in order of registration.

ELEMENT 5

Suffixes indicate improvements and their sequence.

- A = First improvement
- B = Second improvement,etc

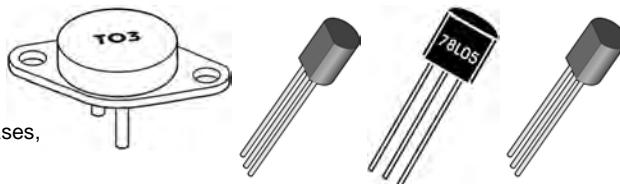
NOTE: An improved version will replace an unimproved type in all cases, but an unimproved version will not always replace an improved type.



TRANSISTOR	2	S	C	1413	A
ELEMENT	1	2	3	4	5

DISCOUNT STRUCTURE
FOR SEMICONDUCTORS
[NOT ASSORTED]

25+	-10%
50+	-20%
100+	POA



NON JAPANESE TRANSISTORS

Many manufacturers in Korea, Taiwan, etc., have adopted similar numbers to the Japanese and change the prefix eg KSC945. To make things more confusing, the KS is left off the device therefore C945 is the only marking on the transistor. In most cases the specs are similar but pin outs are not. Please check circuit prior to replacing the transistor, the same number does not always mean that pin outs are the same.

TRANSISTOR SUBSTITUTIONS

WES Components reserves the right to supply a substitution transistor where the original is not available or is out of stock. These substitutions will be ones confirmed as close to original as to be a direct replacement. A transistor substitution manual is also available which lists possible substitutions for you to substitute devices not listed or are NLA. The comparison is on similar specs only. Therefore this should be read in conjunction with the Transistor Manual to ensure that cases and pin-outs are the same and that the transistor with the best specs is chosen.

□ Transistors

TRANSISTORS LISTING

2N

Code	2N4123	2N6131	2SA603
2N2219A	2N4125	2N6134	2SA608
2N2222	2N4233A	2N6211	2SA614
2N2222A-METAL	2N4240	2N6259	2SA628
2N2368	2N4401	2N6284	2SA634
2N2369A	2N4402	2N6287	2SA639
2N2647	2N4403	2N6290	2SA642
2N2905	2N4416	2N6306	2SA643
2N2906	2N4427	2N6395	2SA659
2N2907A	2N5062	2N6401	2SA673
2N2946	2N5088	2N6403	2SA683
2N3019	2N5401	2N6405	2SA684
2N3053	2N5415	2N6488	2SA699
2N3054	2N5416	2N6491	2SA708M.METAL.CASE
2N3055	2N5461	2N6507	2SA708P.PLASTIC.CASE
2N3439	2N5485	2N6509	2SA709
2N3440	2N5551	2N6660	2SA715
2N3525	2N5681	2N6754	2SA719
2N3583	2N5682		2SA720
2N3771	2N5885		2SA733
2N3772	2N5886		2SA762
2N3773	2N6027		2SA766
2N3904	2N6042		2SA768
2N3905	2N6045		2SA769
2N3906	2N6052		2SA771
2N3958	2N6054		2SA777
2N4030	2N6055		2SA778K
2N4037	2N6056		2SA794
2N4093	2N6059		2SA798
			2SA814



2SA817	2SA1170	2SA1667	2SB764
2SA844	2SA1174	2SA1668	2SB772
2SA845K	2SA1175	2SA1671	2SB774
2SA854	2SA1179.SMD	2SA1672	2SB775A
2SA872	2SA1182.SMD	2SA1673	2SB776
2SA879	2SA1186	2SA1680	2SB778
2SA883	2SA1190	2SA1693	2SB788
2SA885	2SA1205	2SA1694	2SB793
2SA893	2SA1207	2SA1695	2SB810
2SA909	2SA1208	2SA1708	2SB817
2SA916	2SA1209	2SA1762	2SB819
2SA917	2SA1215	2SA1803	2SB825
2SA933	2SA1216	2SA1818	2SB826
2SA934	2SA1220A	2SA1825	2SB827
2SA937	2SA1221	2SA1837	2SB849
2SA939	2SA1227A	2SA1859A	2SB856
2SA940	2SA1249	2SA1908	2SB857
2SA949	2SA1262	2SA1930	2SB863
2SA950	2SA1263	2SA1939	2SB870
2SA952	2SA1264	2SA1940	2SB881
2SA957	2SA1265	2SA1941	2SB886
2SA958	2SA1266	2SA1943	2SB891
2SA965	2SA1267	2SA1962	2SB892
2SA966	2SA1268	2SA1986	2SB895
2SA968A	2SA1270	2SA1987	2SB907
2SA968B	2SA1271	2SA2121-O	2SB922
2SA970BL	2SA1276		2SB934
2SA970GR	2SA1281		2SB939A
2SA984	2SA1283	Code	2SB940A
2SA985	2SA1286	2SB156	2SB941
2SA988	2SA1287	2SB435	2SB944
2SA992	2SA1294	2SB507E	2SB950A
2SA993	2SA1295	2SB525	2SB970
2SA995	2SA1298.SMD	2SB536	2SB974
2SA999	2SA1301	2SB537	2SB985
2SA1006	2SA1302	2SB544	2SB1010
2SA1011	2SA1303	2SB546A	2SB1016A
2SA1012	2SA1306A	2SB548	2SB1020
2SA1013	2SA1307	2SB549	2SB1020A
2SA1015	2SA1309A	2SB557	2SB1023
2SA1016	2SA1315	2SB559	2SB1030
2SA1018	2SA1317	2SB560	2SB1035
2SA1019	2SA1345	2SB561	2SB1038
2SA1020	2SA1346	2SB562	2SB1050Q
2SA1021	2SA1348	2SB564	2SB1055
2SA1024	2SA1352	2SB566	2SB1061
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2SA1037.SMD	2SA1358	2SB596	2SB1068
2SA1038	2SA1359	2SB598	2SB1077
2SA1048	2SA1360	2SB631	2SB1096
2SA1061	2SA1362.SMD	2SB632	2SB1098
2SA1075	2SA1365.SMD	2SB633	2SB1099
2SA1077	2SA1370	2SB641	2SB1106
2SA1082	2SA1371	2SB642	2SB1109
2SA1084	2SA1376	2SB643	2SB1117
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2SA1091	2SA1386A	2SB646	2SB1123.SMD
2SA1094	2SA1405	2SB647	2SB1135
2SA1095	2SA1413	2SB649A	2SB1136
2SA1102	2SA1470	2SB676	2SB1149
2SA1104	2SA1490	2SB686	2SB1155
2SA1105	2SA1491	2SB688	2SB1156
2SA1106	2SA1492	2SB698	2SB1159
2SA1111	2SA1493	2SB710	2SB1172
2SA1115	2SA1494	2SB715	2SB1185
2SA1116	2SA1515	2SB716	2SB1186A
2SA1117	2SA1516	2SB718	2SB1187
2SA1120	2SA1526	2SB727K	2SB1202.SMD
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2SA1123	2SA1538	2SB739	2SB1219A.SMD
2SA1124	2SA1576.SMD	2SB744	2SB1237
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2SA1145	2SA1633	2SB755	2SB1257
2SA1156	2SA1659	2SB761	2SB1258
2SA1162.SMD			2SB1261



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2SB1261Z	2SC945A	2SC1686	2SC2308
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2SC509	2SC1390	2SC2026	2SC2551
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2SC901A	2SC1624	2SC2238	2SC2668
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2SC937	2SC1675	2SC2274	2SC2688
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2SC941	2SC1683	2SC2290A	2SC2690A.METAL
	2SC1685	2SC2307	2SC2695



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2SC2790	2SC3197	2SC3447	2SC3894
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2SC2878	2SC3225	2SC3495	2SC3954
2SC2898	2SC3227	2SC3502	2SC3955
2SC2909	2SC3228	2SC3505	2SC3956
2SC2910	2SC3229	2SC3506	2SC3964
2SC2911	2SC3230	2SC3507	2SC3979
2SC2921	2SC3242	2SC3519A	2SC3996
2SC2922	2SC3243	2SC3549	2SC3997
2SC2923	2SC3244	2SC3552	2SC3998
2SC2928	2SC3245	2SC3553	2SC4004
2SC2929	2SC3246	2SC3559	2SC4020
2SC2939	2SC3255	2SC3568	2SC4028
2SC2958	2SC3257	2SC3570	2SC4029
2SC2964	2SC3260	2SC3591	2SC4054
2SC2965	2SC3261	2SC3611	2SC4055
2SC2979	2SC3262	2SC3616	2SC4058
2SC2987	2SC3263	2SC3619	2SC4059
2SC2987A	2SC3264	2SC3621	2SC4060
2SC2999	2SC3270	2SC3657	2SC4064
2SC3000	2SC3277	2SC3659	2SC4081.SMD
2SC3019	2SC3279	2SC3668	2SC4106
2SC3021	2SC3280	2SC3675	2SC4107
2SC3025	2SC3281	2SC3676	2SC4111
2SC3026	2SC3284	2SC3678	2SC4122
2SC3030	2SC3293	2SC3679	2SC4123
2SC3039	2SC3296	2SC3680	2SC4125
2SC3040	2SC3298	2SC3686	2SC4137
2SC3042	2SC3303	2SC3687	2SC4138
2SC3060	2SC3306	2SC3688	2SC4157
2SC3061	2SC3307	2SC3691	2SC4160
2SC3063	2SC3309	2SC3694	2SC4161
2SC3066	2SC3311	2SC3729	2SC4169
2SC3068	2SC3318	2SC3732	2SC4204
2SC3070	2SC3320	2SC3743	2SC4234
2SC3076	2SC3329	2SC3746	2SC4235
2SC3086	2SC3331	2SC3748	2SC4236
2SC3087	2SC3337	2SC3749	2SC4237
2SC3089	2SC3346	2SC3750	2SC4242
2SC3090	2SC3353	2SC3752	2SC4278
2SC3101	2SC3355	2SC3783	2SC4288A
2SC3102	2SC3356.SMD	2SC3788	2SC4290A
2SC3114	2SC3358	2SC3789	2SC4293
2SC3117	2SC3369	2SC3792	2SC4297
2SC3121.SMD	2SC3371	2SC3795A	2SC4298
2SC3122.SMD	2SC3377	2SC3795B	2SC4300
2SC3148	2SC3379	2SC3807	2SC4304
2SC3150	2SC3381	2SC3832	2SC4312
2SC3151	2SC3383	2SC3833	2SC4313
2SC3152	2SC3399	2SC3851A	2SC4351
2SC3153	2SC3400	2SC3852	2SC4369



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2SC4381	2SC5270A	2SD415	2SD958
2SC4382	2SC5287	2SD424	2SD965
2SC4386	2SC5296	2SD427	2SD966
2SC4408	2SC5297	2SD438	2SD973A
2SC4419	2SC5298	2SD439	2SD986
2SC4424	2SC5299	2SD467	2SD992
2SC4429	2SC5302	2SD468	2SD995L
2SC4458	2SC5331	2SD471	2SD998
2SC4460	2SC5339	2SD476	2SD1012
2SC4466	2SC5352	2SD525	2SD1027
2SC4467	2SC5359	2SD526	2SD1037
2SC4468	2SC5386.	2SD545	2SD1044
2SC4479	2SC5387	2SD549	2SD1046
2SC4488	2SC5388	2SD556	2SD1047
2SC4517A	2SC5404	2SD558	2SD1051
2SC4538	2SC5411	2SD560	2SD1061
2SC4542	2SC5440	2SD600	2SD1062
2SC4544	2SC5446	2SD613	2SD1063
2SC4581	2SC5447	2SD621L	2SD1065
2SC4582	2SC5449	2SD627	2SD1071
2SC4585	2SC5450	2SD635	2SD1073
2SC4589	2SC5480-01	2SD636	2SD1090
2SC4622	2SC5521	2SD637	2SD1094
2SC4630	2SC5546	2SD638	2SD1111
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2SC4688	2SC5584	2SD655	2SD1128
2SC4706	2SC5586	2SD662	2SD1133
2SC4719	2SC5588	2SD666	2SD1135
2SC4741	2SC5591	2SD667A	2SD1138
2SC4742	2SC5612	2SD669A	2SD1140
2SC4744	2SC5681	2SD686	2SD1145
2SC4747	2SC5682	2SD687	2SD1148
2SC4762	2SC5690	2SD688	2SD1151
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2SC4767	2SC5698	2SD717	2SD1163A
2SC4769	2SC5706	2SD718	2SD1164
2SC4770	2SC5707	2SD729H	2SD1173
2SC4793	2SC5858	2SD734	2SD1175
2SC4804	2SC5859	2SD768K	2SD1185
2SC4833	2SC5885	2SD807	2SD1186
2SC4834	2SC5902	2SD811	2SD1190
2SC4883A	2SC5905	2SD819	2SD1191
2SC4886	2SC5929	2SD820	2SD1192
2SC4908	2SC5949-O	2SD821	2SD1196
2SC4916	2SC5967	2SD837	2SD1207
2SC4923	2SC6073	2SD838K	2SD1211
2SC4924	2SC8050	2SD841	2SD1212
2SC4927	2SC8550	2SD845	2SD1227M
2SC4977		2SD858	2SD1246
2SC5002		2SD859	2SD1257
2SC5003	Code	2SD860A	2SD1260
2SC5022	2SD73	2SD863	2SD1264
2SC5027.PLASTIC.	2SD180	2SD864K	2SD1265
CASE	2SD198	2SD866A	2SD1266A
2SC5047	2SD200	2SD868	2SD1267A
2SC5048	2SD227	2SD869	2SD1269
2SC5071	2SD261	2SD870	2SD1271
2SC5101	2SD288	2SD871	2SD1273
2SC5129	2SD313	2SD876	2SD1274B
2SC5143	2SD315	2SD880	2SD1275
2SC5144	2SD325	2SD882	2SD1276
2SC5148	2SD330	2SD889	2SD1289
2SC5149	2SD350.JAPAN.ORIG	2SD894	2SD1292
2SC5150	2SD350A-E.EUROPEAN	2SD895	2SD1296
2SC5171	2SD350A.JAPAN.ORIG	2SD896	2SD1297
2SC5196	2SD352	2SD898A	2SD1298
2SC5197	2SD353	2SD900B	2SD1302
2SC5198	2SD362	2SD904	2SD1308
2SC5200	2SD371	2SD905	2SD1330
2SC5207A	2SD380	2SD917	2SD1347
2SC5239	2SD381	2SD946	2SD1376K
2SC5241	2SD387	2SD947.METAL.BACK	2SD1380
2SC5242	2SD388A	2SD947F.INSUL	2SD1384
2SC5244A	2SD389	2SD951	2SD1395
2SC5250	2SD400	2SD953	2SD1397
2SC5253	2SD401A	2SD957	2SD1398



2SD1399	2SD1732	2SD2253	2SK
2SD1402	2SD1739	2SD2255	Code
2SD1403	2SD1759	2SD2259	2SK19
2SD1406	2SD1760	2SD2331	2SK30A
2SD1407	2SD1761	2SD2333	2SK33
2SD1408	2SD1762	2SD2334	2SK34
2SD1409	2SD1763A	2SD2335	2SK40
2SD1413	2SD1764	2SD2336	2SK41
2SD1415A	2SD1765	2SD2340	2SK49
2SD1417	2SD1767.SMD	2SD2348	2SK54
2SD1425	2SD1769	2SD2375	2SK55
2SD1426	2SD1785	2SD2389	2SK105
2SD1427	2SD1791	2SD2390	2SK117
2SD1428	2SD1792	2SD2395	2SK118
2SD1431	2SD1796	2SD2396	2SK118-Y
2SD1432	2SD1801	2SD2399	2SK125
2SD1433	2SD1805	2SD2401	2SK128
2SD1438	2SD1812Q	2SD2439	2SK161
2SD1439	2SD1816	2SD2488	2SK163
2SD1441	2SD1830	2SD2495	2SK168
2SD1442	2SD1835	2SD2498	2SK184
2SD1446	2SD1846	2SD2499	2SK192A
2SD1447	2SD1847	2SD2500	2SK193
2SD1453	2SD1850	2SD2539	2SK210.SMD
2SD1455	2SD1853	2SD2553	2SK212
2SD1456	2SD1856	2SD2560	2SK213
2SD1457A	2SD1858	2SD2576	2SK214
2SD1458	2SD1863	2SD2578	2SK216
2SD1468	2SD1877	2SD2579	2SK223
2SD1496	2SD1878	2SD2580	2SK246
2SD1497	2SD1878F.INSULATED	2SD2581	2SK301
2SD1499	2SD1879.INSULATED	2SD2586	2SK304
2SD1507	2SD1880	2SD2599	2SK345
2SD1508	2SD1883	2SD2624	2SK346
2SD1509	2SD1884	2SD2627	2SK369
2SD1541	2SD1886	2SD2634	2SK381
2SD1544	2SD1887	2SD2642	2SK386
2SD1545	2SD1889	2SD2689LS	2SK427
2SD1546	2SD1894	2SD4706	2SK430
2SD1547	2SD1895	2SD5072	2SK511
2SD1548	2SD1903	2SD5447	2SK514H
2SD1553	2SD1905		2SK525
2SD1554	2SD1907		2SK526
2SD1555	2SD1910	Code	2SK538
2SD1556	2SD1911	2SJ72	2SK539
2SD1565	2SD1912	2SJ74	2SK564
2SD1571	2SD1913	2SJ76	2SK622
2SD1577	2SD1933	2SJ78	2SK679A
2SD1578	2SD1941	2SJ79	2SK684
2SD1584	2SD1944	2SJ109	2SK685
2SD1584Z	2SD1985	2SJ116	2SK699
2SD1589	2SD1992A	2SJ117	2SK701
2SD1591	2SD1996	2SJ122	2SK703
2SD1609	2SD2004	2SJ160	2SK719
2SD1616	2SD2006	2SJ162	2SK724
2SD1617	2SD2012.INSULATED	2SJ172	2SK725
2SD1630	2SD2018	2SJ174	2SK727
2SD1632	2SD2037	2SJ175-TO92	2SK758
2SD1640	2SD2045	2SJ175-TO220	2SK786
2SD1649	2SD2052	2SJ176	2SK787
2SD1650	2SD2057	2SJ217	2SK790
2SD1651	2SD2058	2SJ306	2SK791
2SD1654	2SD2059	2SJ307	2SK792
2SD1666	2SD2060	2SJ308	2SK793
2SD1669	2SD2061	2SJ449	2SK794
2SD1677	2SD2083	2SJ477	2SK817
2SD1680	2SD2089	2SJ512	2SK818A
2SD1682	2SD2092	2SJ516	2SK854
2SD1683	2SD2101	2SJ555	2SK872
2SD1701	2SD2102	2SJ6810	2SK903
2SD1710	2SD2125	2SJ6810D	2SK904
2SD1711	2SD2144S	2SJ6812	2SK940
2SD1714	2SD2155		2SK947
2SD1716	2SD2166		2SK951
2SD1729	2SD2222		2SK954
2SD1730	2SD2243		

Please contact us if you can not find your required Transistor.



Electronic Components

2SK955	2SK2137	11N	BD
2SK956	2SK2141	Code	Code
2SK962	2SK2148	11N60C3	BD115
2SK970	2SK2161		BD135
2SK1023	2SK2223	AD	BD136
2SK1024	2SK2275	Code	BD137
2SK1044	2SK2320	AD161	BD138
2SK1045	2SK2333	AF	BD139
2SK1058	2SK2372	Code	BD140
2SK1081	2SK2388	AF279	BD175
2SK1082	2SK2417		BD176
2SK1086	2SK2480	BC	BD177
2SK1102	2SK2485	Code	BD179
2SK1117	2SK2487	BC107C	BD180
2SK1118	2SK2518	BC108	BD201
2SK1156	2SK2545	BC109B	BD202
2SK1162	2SK2564	BC109C	BD204
2SK1170	2SK2605	BC140	BD226
2SK1185	2SK2611	BC141	BD229
2SK1189	2SK2628	BC149	BD232
2SK1192	2SK2632	BC160-T039	BD233
2SK1204	2SK2645	BC160-T092	BD234
2SK1213	2SK2647	BC161	BD235
2SK1217	2SK2651	BC177	BD236
2SK1221	2SK2671	BC177C	BD237
2SK1248	2SK2673	BC179	BD238
2SK1250	2SK2674	BC238	BD239C
2SK1271	2SK2676	BC239	BD240C
2SK1304	2SK2699	BC327	BD241
2SK1341	2SK2700	BC328	BD241C
2SK1342	2SK2717	BC337	BD242C
2SK1350	2SK2718	BC338	BD243C
2SK1356	2SK2723	BC368	BD244
2SK1357	2SK2750	BC369	BD244C
2SK1358	2SK2761	BC408	BD249C
2SK1359	2SK2769	BC546A	BD433
2SK1365	2SK2834	BC546B	BD434
2SK1377	2SK2837	BC547B	BD435
2SK1397	2SK2842	BC547C	BD436
2SK1420	2SK2843	BC548	BD437
2SK1460	2SK2845	BC548B	BD438
2SK1461	2SK2847	BC548C	BD439
2SK1507	2SK2848	BC549B	BD440
2SK1518	2SK2876	BC549C	BD441
2SK1529	2SK2995	BC550B	BD442
2SK1530	2SK2996	BC556B	BD535
2SK1535	2SK3053	BC556C	BD536
2SK1537	2SK3067	BC557A	BD538
2SK1544	2SK3115	BC557B	BD643
2SK1595	2SK3235	BC558B	BD643F
2SK1611	2SK3255	BC558C	BD644
2SK1643	2SK3264	BC560C	BD645
2SK1692	2SK3304	BC635	BD646
2SK1696	2SK3316	BC636	BD647
2SK1745	2SK3451	BC637	BD648
2SK1794	2SK3502	BC638	BD649
2SK1833	2SK3528	BC639	BD650
2SK1916	2SK3530	BC640	BD651
2SK1924	2SK3566	BC817-25.SMD	BD652
2SK1938	2SK3568	BC846B.SMD	BD675
2SK1940	2SK3683	BC847B.SMD	BD676
2SK2010	2SK3742	BC640	BD677
2SK2012	2SK3850	BC848.SMD	BD678
2SK2038	2SK4075.SMD	BC858.SMD	BD679
2SK2039	2SK4097LS		BD680
2SK2043		BCY	BD681
2SK2049		Code	BD682
2SK2056		3SF11P	BD683
2SK2077			BD711
2SK2123		3SK	BD712
2SK2125		Code	BD911
2SK2128		BCY59	BD912
2SK2129		BCY79	BD941
2SK2134		3SK45	
2SK2136		3SK74	
		3SK80	



BDV
Code
BDV64C
BDV65B
BDV65BF.INSULATED
BDV65C
BDV66AF.INSULATED
BDV66C

BDW
Code
BDW41B
BDW93C
BDW94C

BDX
Code
BDX33C
BDX34C
BDX53C
BDX54C
BDX54F
BDX64A
BDX65A
BDX66A
BDX66C
BDX67C

BF
Code
BF180
BF183
BF198
BF199
BF240
BF245
BF258
BF259
BF324
BF337
BF338
BF370
BF421
BF422
BF423
BF458
BF459
BF469
BF470
BF472
BF494
BF819
BF859A
BF869
BF870
BF871
BF872
BF960
BF961

BFQ
Code
BFQ162
BFQ225
BFQ232A
BFQ235A
BFQ252A
BFQ262

BFR
Code
BFR90A
BFR91A

BFT
Code
BFT66

BFW
Code
BFW16A

BFY
Code
BFY50
BFY51
BFY52
BFY90

BS
Code
BS170
BS250

BSS
Code
BSS38

BSX
Code
BSX20

BTS
Code
BTS425L1

BU
Code
BU126
BU205
BU208A
BU208D
BU326A
BU406
BU406D
BU407
BU407D
BU408
BU408D
BU415B
BU426A
BU426AF.INSULATED
BU505
BU508A
BU508AF.INSULATED
BU508D
BU508DF.INSULATED
BU508DW
BU526
BU606
BU608
BU626
BU705
BU806
BU807

BUH
Code
BUH315D
BUH415DI
BUH515
BUH515D
BUH516
BUH517
BUH713
BUH715
BUH1015
BUH1015HI
BUH1215

BUK
Code
BUK444-500B
BUK444-600B
BUK444-800B
BUK445-600B
BUK446-800
BUK453-50A
BUK455-500A
BUK455-600B
BUK456-60A
BUK456-800B
BUK456-1000B
BUK555-60A
BUK555-600B

BUL
Code
BUL38D
BUL310F1

BUT
Code
BUT11
BUT11A
BUT11AF
BUT11APX
BUT11AX
BUT11F
BUT12A
BUT12AF
BUT18AF
BUT56A

BUV
Code
BUV27H
BUV48A
BUV48B
BUV48C
BUV48CFI
BUV48FI
BUV90

BUW
Code
BUW11A
BUW12A
BUW13A
BUW13AF
BUW84
BUW85

BUX
Code
BUX10
BUX48
BUX48A
BUX67C
BUX80
BUX81
BUX84
BUX85
BUX86
BUX98C

BUY
Code
BUY69A

BUZ
Code
BUZ11A
BUZ31
BUZ41A
BUZ71A
BUZ73
BUZ80A
BUZ90
BUZ90A
BUZ90AF
BUZ91A
BUZ102AL
BUZ905
BUZ906

CCS
Code
CCS5417
CCS5609
CCS5610
CCS8050
CCS8550
CCS9011
CCS9012
CCS9013
CCS9014C
CCS9015
CCS9016
CCS9018

CS
Code
CS7031
DISCOUNT STRUCTURE
[NOT ASSORTED]
25+ -10%
50+ -20%
100+ POA



Electronic Components

DTA	FQPF	IRFD	KSC
Code DTA114EA DTA114ES DTA114TK.SMD DTA114TS DTA114YK.SMD DTA124EF DTA124ES DTA124ESA DTA124EU.SMD DTA143TS DTA144EA DTA144ES	Code FQPF4N90C FQPF6N60 FQPF6N60C FQPF7N80C.INSULATED FQPF9N25C FQPF9N50C FQPF10N60C FQPF20N06.INSULATED FQPF20N60.INSULATED	Code IRFD110	Code KSC2330 KSC2331 KSC2331.SC-51 KSC5027.TO220.CASE KSC5030F KSC5039F KSC5386
DTB	FS	IRFI	KSD
Code DTB114ES	Code FS3KM18A FS4KM-12A FS5KM-10A FS10KM-10A FS10SM18A FS22SM-10	Code IRFI540N	Code KSD998 KSD5071 KSD5075ST KSD5076 KSD5702 KSD5703
DTC	G	IRFIB	KSR
Code DTC114ES DTC114YF DTC114YK.SMD DTC124ES DTC143EA DTC143ES DTC143TS DTC143XS DTC144ES DTC144EU.SMD DTC144WU.SMD	Code G60N100	Code IRFIB7N50A	Code KSR1001 KSR1002 KSR1003 KSR1004 KSR1007 KSR1008 KSR2001 KSR2002 KSR2003 KSR2004 KSR2007 KSR2202
DTD	GT	IRFP	KTA
Code DTD114TS DTD123YS	Code GT30F123 GT60N321	Code IRFP064N IRFP140N IRFP240 IRFP240A IRFP250 IRFP264N IRFP350 IRFP450 IRFP450A IRFP460 IRFP9140N IRFP9240	Code KTA1024Y KTA1273 KTA1275
FDA	HGTG	IRFPC	KTC
Code FDA18N50	Code G20N50C1D	Code IRFPC40 IRFPC50 IRFPC60	Code KTC4419
FDPF	IRF	IRFRF	KTD
Code FDPF5N50FT.INS	Code IRF1BC30G IRF530N IRF540 IRF540N IRF614 IRF620 IRF630 IRF634 IRF640N IRF644 IRF730 IRF730A IRF740 IRF740A IRF740B IRF822 IRF830.METAL.BACK IRF830B IRF830FI.INSULATED	Code IRFR3504Z-DPAK	Code KTD1414
FJAF	IRFU	IRFS	MD
Code FJAF6810A	Code IRFU9024N	Code IRFS630A IRFS640 IRFS9630	Code MD2009DFX
FJP	IRFU	IRFU	MJ
Code FJP5027R FJP13009-2	Code IRFU9024N	Code IRFU9024N	Code MJ802 MJ901 MJ1000 MJ2500 MJ2955 MJ3001 MJ4031 MJ4034 MJ4035 MJ4502 MJ11015 MJ11016 MJ11032 MJ15002 MJ15003 MJ15004 MJ15022 MJ15023 MJ15024 MJ15025 MJF340
FK	IRFZ	IRLU	
Code FK20KM-5	Code IRF840 IRF1404 IRF3205 IRF3710 IRF5210 IRF9520N IRF9530 IRF9540N IRF9610 IRF9620 IRF9630 IRF9640 URF840B	Code IRFZ20 IRFZ24N IRFZ34N IRFZ40 IRFZ44N IRFZ48 IRFZ48N IRFZ48S	
FQA	IRFB	IXGR	
Code FQA13N50CF FQA18N50V2 FQA19N60	Code IRFBC30 IRFBC40	Code IRLU024N	
FQP	IRFB	J	
Code FQP5N60C FQP50N60 FQPF20N60C.INSULATED	Code IRFBC30 IRFBC40	Code IXGR60N60C2	
		Code J6920 J6920A	
		KRA	
		Code KRA103M	



MJE	P	ST	TIP50 TIP54 TIP101 TIP102 TIP105 TIP106 TIP107 TIP110 TIP111 TIP112 TIP115 TIP116 TIP117 TIP120 TIP121 TIP122 TIP125 TIP126 TIP127 TIP131 TIP132 TIP136 TIP137 TIP140 TIP141 TIP142 TIP146 TIP147.TO218 TIP147.TO247 TIP2955 TIP3055 TIP9010
Code MJE172 MJE340 MJE350 MJE2901 MJE2955T MJE3055T MJE3439 MJE8503 MJE12007 MJE13003 MJE13005 MJE13006 MJE13007 MJE13009 MJE15030 MJE15031 MJE15032 MJE15033 MJE15034G MJE15035G	Code P3NC60FP P4NC60FP P5NB60FP P6N60 P7N60B P7NB60FP P9NB60FP P16NE06	Code ST1802HI ST1803DHI ST2009DHI ST2310DHI ST2310HI	
RFP	RFP	STH	
Code RFP50N06	Code STH8NA60FI STH8NA80FI STH12N60FI STH16NA40F1	Code TIP112 TIP115 TIP116 TIP117 TIP120 TIP121 TIP122 TIP125 TIP126 TIP127 TIP131 TIP132 TIP136 TIP137 TIP140 TIP141 TIP142 TIP146 TIP147.TO218 TIP147.TO247 TIP2955 TIP3055 TIP9010	
RJK	RJK	STP	
Code RJK5020	Code STP3N90 STP3NB60 STP3NB60FP STP3NB90FP STP4NA40FI STP4NA60FI STP5NB40FP STP5NB60FP STP6NA60F1 STP6NA80FI STP6NB80FP STP6NC60FP STP6NK90ZFP STP7N80 STP7NB60FP STP7NC80ZFP STP8NK80ZFP STP9NC60FP STP9NK50Z STP9NK60Z STP9NK60ZFP STP10NK60ZFP STP10NK80Z STP10NK80ZFP STP12NB30FP STP13NK60Z STP14NK50ZFP STP16NE06.METAL. BACK STP20N06.METAL STP60N06	Code TIP125 TIP126 TIP127 TIP131 TIP132 TIP136 TIP137 TIP140 TIP141 TIP142 TIP146 TIP147.TO218 TIP147.TO247 TIP2955 TIP3055 TIP9010	
MJL	S	TK	
Code MJL4281A MJL4302A MJL21193 MJL21194	Code S2000A S2000AF.INSULATED S2055AF.INSULATED S2055N S2530A S3786L SPA11N60C3 SPA11N80C3.INSUL.	Code TK10A50D	
MJW	SGSF	TOP	
Code MJW16212	Code SGSF344	Code TOP201YAI TOP202YAI TOP203YAI TOP204YAI TOP209P TOP210PI TOP214AYI TOP223Y TOP224Y TOP225YN TOP227Y TOP234Y TOP243PN TOP245PN.(DIL) TOP245Y TOP246Y TOP247Y TOP248Y TOP249Y	
MP	SPP	STW	
Code MP1423DN.SMD MP1620	Code SPP11N60C(3) SPP20N60C3.TO220 SSP20N60S5	Code STW7NB80 STW8NC90Z STW11NB80 STW13NB60 STW26NM60	
MPS	SPW	TIP	
Code MPS6595	Code SPW20N60C3.TO247 SPW20N60S5.TO247 SPW35N60C3.TO247	Code TIP29C TIP31A TIP31C TIP32A TIP32C TIP33C TIP34C TIP35C.TO218 TIP35C.TO247 TIP36C.TO218 TIP36C.TO247 TIP41 TIP41A TIP41C TIP42C TIP48	
MPSA	SSH	TT	
Code MPSA06 MPSA12 MPSA13 MPSA42=KSP42 MPSA43 MPSA56 MPSA92	Code SSH6N80 SSH11N90	Code TT2140 TT2142 TT2170 TT2190	
MPSU	SSP	UN	
Code MPSU51	Code SSP2N60B SSP3NC60FP SSP5N60 SSP6N60 SSP7N60B SSP7N80.METAL.BACK SSP9NB60FP SSP10N60A SSP10N60B SSP10NK80ZFP SSP20N60S5	Code UN1111 UN1112 UN1212	
MRF	MTW	W	
Code MRF238	Code MTW8N60E MTW8NB80	Code W12NA60	
MTP	SSS		
Code MTP3N60F1 MTP6N90FI MTP20N60	Code SSS4N60A SSS20N60.INSULATED		
ON			
Code ON4959			



Electronic Components

Semiconductor Information

Semiconductor Information

INTEGRATED CIRCUITS SUBSTITUTES

Generally speaking, integrated circuits are difficult to substitute. In cases where there are substitutes that we are aware of and stock, both types will be listed and the same type will be supplied in both cases. Check the invoice for info if you receive a chip not identical to the one you ordered. If you discover a successful substitution, please let us know including all relevant details. Thank you.

AN IMPROVED VERSION MAY BE SUPPLIED:

JAPANESE - An improved type will replace the original, eg. UPC1185H2 will replace UPC1185.

NON-JAPANESE - No set guide lines.

STOCK AVAILABILITY

The transistors, IC's, FET's, etc.. listed are what we have available at the time of preparation for this catalogue. It is possible that by the time you receive this listing some items may no longer be available. Manufacturers tend to discontinue goods without prior warning.

PRICE CHANGES

Once an item has been discontinued or there is a temporary shortage we must purchase from whoever has stock on the world market. Supply and demand will usually apply to these situations. We will continue to supply discontinued parts for as long as we are able to obtain them. The price may increase, but in most cases the repair will still be viable.

SEMICONDUCTOR WARRANTY

Faults not correctly diagnosed or faults in other parts of the circuitry may result in a newly fitted device being damaged. Manufacturers stand by their quality control testing and DO NOT accept warranty claims on semiconductor devices. WES follows their policy.

ITEMS NOT LISTED

If you require an item not listed please let us know. Maybe we have added it to our range since this publication or alternatively we can make enquiries with our suppliers. If the part is available we will acquire it and add it to our range. Our extensive spare parts listing has come about because many of you have taken the time to inform us which parts you would like us to stock. When you contact us about items not listed, please supply us with as much information as you have available about the part. This will assist us in sourcing the part.

Thank You.

ICs

IC LISTING

1L

Code
1L0380R-4PIN

1M

Code
1M0365R-4PIN
1M0380R
1M0565R
1M0680R
1M0880

2

Code
2621N

2S

Code
2S0680
2S0880-5PIN

3S

Code
3S0680RF.5PIN
3S1265R-5PIN

5H

Code
5H0165R-4PIN

5L

Code
5L0165R-8PIN
5L0265R-4PIN
5L0365R-4PIN
5L0365R-8PIN
5L0380R-4PIN
5L0380R-8PIN

5M

Code
5M02659RN-8PIN
5M0265R
5M0365R-4PIN
5M0365R-8PIN
5M0380R-4PIN

5Q

Code
5Q0565RT-5PIN
5Q0765RT-5PIN
5Q1265RF-5PIN
5Q1265RT-5PIN
5Q1565RF-5PIN

5S

Code
5S1265R

14DN

Code
14DN348E
14DN363

24C

Code
24C01
24C01A
24C01P
24C02
24C02P
24C08A
24C16WP
24C256

27C

Code
27C64A-10F1
27C256-12
27C512-10F1

47C

Code
47C420AF-8574

64

Code
6458D
6458S

74

Code
7404
7405
7406
7407
7425
7438

74HC

Code
74HC00
74HC02P
74HC04
74HC10N
74HC14N

74C74N

Code
74HC85P
74HC86AP
74HC123AN

74C139P

Code
74HC164E
74HC193P
74HC374P

74C573P

Code
74HC595
74HC4066P

74HCT

Code
74HCT04E

**DISCOUNT STRUCTURE
FOR SEMICONDUCTORS
[NOT ASSORTED]**
25+ -10%
50+ -20%
100+ POA



**INTEGRATED
CIRCUIT**



74LS	4000 CMOS IC	A	
Code	Code	Code	AN5135NK
74LS00	4001	A1019.SMD	AN5138NK
74LS01P	4002	A1034	AN5150N
74LS02	4006	A2202	AN5151N
74LS03	4008	A7530N	AN5179K
74LS04	4009		AN5192K-B
74LS08	4010		AN5195K-B
74LS10	4011		AN5195K-C
74LS21	4013		AN5198K
74LS27	4015		AN5250
74LS28	4016		AN5252
74LS32	4017		AN5256
74LS47	4018		AN5260
74LS48	4019		AN5262
74LS74	4020		AN5265
74LS86	4022		AN5270
74LS90	4023		AN5274
74LS92	4024		AN5275
74LS93	4025		AN5277
74LS112	4027		AN5325
74LS138	4028		AN5410
74LS145	4029		AN5421
74LS151	4030		AN5431N
74LS155	4033		AN5435
74LS161	4035		AN5436N
74LS164	4041		AN5510
74LS166	4044		AN5512
74LS174	4046		AN5515
74LS191	4047		AN5521
74LS192	4049		AN5522
74LS193	4050		AN5523
74LS194	4051		AN5534
74LS221N	4052		AN5539
74LS240	4053		AN5600K
74LS241	4060		AN5601K
74LS243	4066		AN5606K
74LS244	4066BF.SMD		AN5612
74LS245	4069		AN5615
74LS257	4070		AN5620X
74LS258AN	4071		AN5622
74LS273	4072		AN5625N
74LS365AN	4073		AN5630
74LS373	4075		AN5650
74LS374N	4076		AN5693K
74LS377	4077		AN5701N
74LS393	4078		AN5703
74LS541N	4081		AN5710
74S	4082		AN5715K
Code	4085		AN5722
74S00	4086		AN5733
74S04	4093		AN5750
74S08	4094		AN5753
74S11	4094BCF.SMD		AN5763
74S32	4503		AN5766K
74S64	4510		AN5790N
74S74	4518		AN5836
74S112	4520		AN5855K
74S138	4528		AN5856K
74S163N	4555		AN5858K
	4556		AN5862K
	4558D		AN5891K
85C	4558G.SMD		AN5900
Code	4558S		AN6045
85C72/P	4584		AN6130N
93C	4585		AN6209
Code	40097		AN6248
93C46CB3	40106		AN6250
626A			AN6251
Code			AN6262
626A2205KWMCC			AN6263
			AN6270
			AN6271
			AN6291



Electronic Components

AN6300	AN7169
AN6306	AN7170
AN6308	AN7171K
AN6310	AN7172K
AN6321	AN7173K
AN6326N	AN7174K
AN6331	AN7177
AN6340	AN7178
AN6341N	AN7190K
AN6342N	AN7191K
AN6343	AN7195K
AN6344	AN7205
AN6346N	AN7213
AN6350	AN7220
AN6357N	AN7222
AN6359N	AN7223
AN6360	AN7225
AN6362	AN7226
AN6371	AN7254
AN6387	AN7256
AN6391NK	AN7273
AN6500	AN7310
AN6550	AN7312
AN6551	AN7320
AN6553	AN7332S.SMD
AN6554	AN7410N
AN6554NS.S/FACE. MNT	AN7411
AN6555	AN7414
AN6557	AN7420
AN6562	AN7470
AN6650	AN7522N
AN6651	AN7523N
AN6671K	AN7551Z
AN6677	AN7591
AN6780	AN7805R
AN6821	AN7806
AN6873N	AN7812
AN6877	AN7818F
AN6878	AN8021L
AN6881	AN8377N
AN6884	AN8389S.SMD
AN6912	AN17821A
AN6913	AN17823A
AN6914	AN17830A
AN7025K	AN17832A
AN7062N	AP
AN7072	Code
AN7108	AP1501A-ADJ
AN7112E	APU
AN7114E	Code
AN7115E	APU2470
AN7116	AS
AN7118	Code
AN7125	AS15-G.SMD
AN7130E	AS15-U
AN7131	AS34-G.SMD
AN7133N	
AN7134N	
AN7135	
AN7140	
AN7141	
AN7145M	AY
AN7147N	Code
AN7148	AY-3-8500
AN7149N	B
AN7154	Code
AN7156N	B553A
AN7158N	DISCOUNT STRUCTURE FOR SEMICONDUCTORS [NOT ASSORTED]
AN7161N	25+ -10%
AN7164	50+ -20%
AN7166	100+ POA
AN7168	

AN7169	BA
AN7170	Code
AN7171K	BA12T
AN7172K	BA226
AN7173K	BA235
AN7174K	BA301
AN7177	BA311
AN7178	BA313
AN7190K	BA314
AN7191K	BA318
AN7195K	BA328
AN7205	BA333
AN7213	BA335
AN7220	BA336
AN7222	BA340
AN7223	BA343
AN7225	BA403
AN7226	BA516
AN7254	BA518
AN7256	BA526
AN7273	BA527
AN7310	BA532
AN7312	BA536
AN7320	BA546
AN7332S.SMD	BA618
AN7410N	BA631
AN7411	BA656
AN7414	BA658
AN7420	BA707
AN7470	BA715
AN7522N	BA718
AN7523N	BA728.DIL
AN7551Z	BA728.N.SIL
AN7591	BA823
AN7805R	BA855A
AN7806	BA867
AN7812	BA878L
AN7818F	BA1310F
AN8021L	BA1330F.SMD
AN8377N	BA1332L.SIL
AN8389S.SMD	BA1404
AN17821A	BA1604
AN17823A	BA3121
AN17830A	BA3304
AN17832A	BA3308
	BA3312N
	BA3402
	BA3406L
	BA3408
	BA3416BL
	BA3426AS
	BA3503F.SMD
	BA3505F.SMD
	BA3520
	BA3521
	BA3706
	BA3812L
	BA3822LS
	BA3824LS
	BA3904A
	BA3918
	BA3920
	BA4220
	BA4236L
	BA4402
	BA4422AN
	BA4560
	BA4906
	BA5101
	BA5102A
	BA5115
	BA5208AF.SMD
	BA5402A

BA5406
BA5412
BA5413
BA5415A
BA5416
BA5417
BA5810FP.SMD
BA5813FM.SMD
BA5814FM.SMD
BA5815FM
BA5823FM.SMD
BA5833FM.SMD
BA5936S
BA5941FP.SMD
BA5947FP.SMD
BA5954FP.SMD
BA5960FS.SMD
BA5974FP
BA5979S
BA6104
BA6109
BA6121
BA6122A
BA6124
BA6125
BA6137
BA6144
BA6149LS
BA6198FP.SMD
BA6208
BA6209
BA6218
BA6219B
BA6220
BA6222
BA6227
BA6229
BA6238A
BA6247
BA6248
BA6259N
BA6280AF.SMD
BA6287F.SMD
BA6290A
BA6294
BA6296FP.SMD
BA6297AFP.SMD
BA6299FP.SMD
BA6302A
BA6303
BA6304
BA6305
BA6328
BA6334
BA6353S
BA6392FP.SMD
BA6396FP.SMD
BA6397FP.SMD
BA6398FP
BA6411
BA6413
BA6418N
BA6430S
BA6432S
BA6435S
BA6439P
BA6439S
BA6566
BA6664FM.SMD
BA6790FP.SMD
BA6870S
BA6887V3
BA6898FP.SMD



BA6956AN	CD	CXD	HA
BA6993.DIL	Code	CXDI125Q.SMD	Code
BA7004	CD1031CS	CXD1130Q.SMD	HA178M05P
BA7007	CD1353CP	CXD1135Q.SMD	HA178M08
BA7021	CD1366CP	CXD2500AQ.SMD	HA1125
BA7022A	CD8256CZ		HA1137W
BA7023L	CD9632CS		HA1147
BA7024			HA1154
BA7039			HA1156W
BA7125L			HA1196
BA7230LS	CIC		HA1197
BA7267S	Code		HA1199
BA7604N	CIC7018E		HA1308
BA7710S	CIC9140BE		HA1338
BA7720S			HA1364
BA7740S	CM		HA1366W
BA7743S	Code		HA1366WR
BA7751ALS	DBL324		HA1367
BA7752LS	CM0765R.6.PIN		HA1377A
BA7755			HA1389R
BA7765AS	CNX		HA1392
BA7766AS	Code		HA1398
BA7767AS	CNX62A		HA1406
BA7795LS	CNX82A		HA11211
BA8205	CNX83A		HA11219
BA10324A			HA11223W
BA10339	CNY		HA11225
BA10358N	Code		HA11226
BA10393N.SIL	CNY17F2		HA11227
BA12003			HA11235
BA12004	CS		HA11238
BA15218D.DIL	Code		HA11244
BA15218N.SIL	CVA2400A		HA11401
	CVA2411TX		HA11414
BD			HA11423
Code	CX		HA11440A
BD9893F.SMD	Code		HA11701
BD9897FS.SMD	20111		HA11703
	CX131A		HA11711
BN	CX138		HA11715
Code	CX141		HA11724
BN5115	CX150B		HA11725
	CX157		HA11741
BU	CX523-117P		HA11744NT
Code	CX804		HA11744
BU2114	CX20061		HA11744NT
BU2735AS	CX20106A		HA11745
BU2751S	CX20126		HA11745NT
BU2753AS	CX20187		HA11749
BU2845S	CX20198		HA11752
BU2872AK.SMD	CX22008		HA11857NT
BU2896AK.SMD	CX22009		HA12003
BU2896K.SMD	CX23025		HA12005
BU2899K.SMD			HA12010
BU3738F.SMD	CXA		HA12013
BU4094BCF.SMD	Code		HA12016
	CXA1044P		HA12038NT
CA	CXA1081.DIL		HA12045
Code	CXA1081M.SMD		HA12046
CA733	CXA1082BQ.SMD		HA12047
CA1310	CXA1198AP		HA12074NT
CA1391E	CXA1213BS		HA12135A
CA1458	CXA1213S		HA12411
CA3046	CXA1238S		HA12413
CA3071	CXA1279AS		HA12427AV
CAT	CXA1291P		HA12428V
Code	CXA1372AQ.SMD		HA12430
CAT93C46P	CXA1372S		HA13001
	CXA1587S		HA13007
	CXA2050S		HA13108
	CXA2100AQ.SMD		HA13117
	CXA2139S		HA13118
	CXA2581N.SMD		HA13119
	CXA8008P		



Electronic Components

HA	
HA13127	
HA13128	
HA13150A	
HA13152	
HA13153A	
HA13155	
HA13157	
HA13158A	
HA13403V	
HA13408	
HA13412	
HA13426	
HA13431	
HA13441	
HA13491S.SMD	
HA17324	
HA17339	
HA17358	
HA17384PS	
HA17393	
HA17431P/PA	
HA17458PS	
HA17524P	
HA17555	
HA17558	
HA17741	
HA17806	
HA17808	
HA17812	
HA17815	
HD	
Code	
HD14013BP	
HD14052P	
HD14081BP	
HD14538BP	
HD38980C	
HD38991A	
HD38993A	
HD49735ANT	
HG	
Code	
HG5412	
HIS	
Code	
HIS0169C	
HM	
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HM6116LM-120	
HM9102	
HY	
Code	
HY6116AP-10	
HY6116AP-15	
HY6264P-15	

ICE	
Code	
ICE1QS01.DIL	
ICE2A0565	
ICE2A265	
ICE2A365	
ICE2A765P2	
ICE2B0365	
ICE2B0565	
ICE2B265	
ICE2BS01	
ICE2QS01.DIL	
ICE3B0365	
ICE3B1565J	
ICE3B3065P	
ICE3BR0665J	
ICE3BR1065F	
ICE3BR1565F	
ICE3BR1765J	
ICE3BR2565JF	
ICE3BR4765J	
IR	
Code	
IR3N05	
IR2109	
IR2111	
IR2113	
IR2403	
IRG4PC50W	
IRL	
Code	
IRL3803	
JRC	
Code	
JRC082D	
JRC2352D	
JRC2902	
JRC2904	
JRC3403AD	
JRC4419A	
JRC7815A	
JRC10311	
JU	
Code	
JU0004	
JU0005	
JU0006	
JU0012	
JU0047	
JU0076	
JU0114	
JU0116	
JU0130	
JU0168	
JW	
Code	
JW1002	
KA	
Code	
KA1H0165R	
KA1L0380R-4PIN	
KA1M0365R.4PIN	
KA1M0380R	
KA1M0565R	
KA1M0680R	
KA1M0880	
KA2S0680	
KA2S0880-5PIN	
KA3S0680RF-5PIN	
KA3S1265R-5PIN	
KA5H0165R-4PIN	
KA5L0165R-4.PIN	
KA5L0165R-8PIN	
KA5L0265R-4PIN	
KA5L0365R-4PIN	
KA5L0365R-8PIN	
KA5M02659RN-8PIN	
KA5M0265R-5PIN	
KA5M0365R-4PIN	
KA5M0365R-8PIN	
KA5M0380R-4PIN	
KA5Q0565RT-5PIN	
KA5Q0765RT-5PIN	
KA5Q1265RF-5PIN	
KA5Q1265RT-5PIN	
KA5Q1565RF-5PIN	
KA5S1265R-PIN	
KA33V	
KA78R05	
KA78R08	
KA78R12	
KA78R15	
KA78R33	
KA278R05	
KA278R09	
KA278R12	
KA278R33	
KA324	
KA386	
KA431Z	
KA555	
KA1222	
KA2101	
KA2102A	
KA2130A	
KA2131	
KA2133	
KA2138	
KA2142	
KA2154	
KA2192	
KA2201	
KA2206N	
KA2209A	
KA2209B	
KA2212	
KA2213	
KA2220	
KA2221	
KA2224	
KA2225	
KA2228	
KA2261	
KA2263	
KA2264.SIL	
KA2264S.SMD	
KA2295	
KA2402	
KBF	
Code	
K1204	
KDA	
Code	
KDA0316LN	
KIA	
Code	
KIA78D05F.SMD	
KIA78R12PI	
KIA78R15API	
KIA278R05PI	
KIA278R12PI	
KIA278R33P	
KIA324	
KIA358N	
KIA494	
KIA567P	
KIA3842P	

**DISCOUNT STRUCTURE
FOR SEMICONDUCTORS
[NOT ASSORTED]**

25+ -10%
50+ -20%
100+ POA





LA			
Code	LA4225	LA6510	
KIA4558D	LA4227	LA6515	
KIA4558S	LA4261	LA6520	
KIA6067N	LA4265	LA6524	
KIA6205H	LA4270	LA6532.SMD	
KIA6210AH	LA4280	LA6537	
KIA6221H	LA4282	LA6541.SMD	
KIA6225S	LA4285	LA6560.SMD	
KIA6268P	LA4400	LA7016	
KIA6269P	LA4422	LA7018	
KIA6280H	LA4440	LA7031	
KIA6281H	LA4445	LA7032	
KIA6282K	LA4446	LA7033	
KIA6283K	LA4450	LA7034	
KIA6299H	LA4451N	LA7035	
KIA7207AP	LA4460	LA7042	
KIA7217	LA4461	LA7045	
KIA7233P	LA4465	LA7051	
KIA7640AP	LA4467	LA7072	
KIA7705P	LA4468	LA7096	
KIA7805A	LA4471	LA7116	
KIA7806	LA4490	LA7124	
KIA7809	LA4495	LA7210	
KIA7812	LA4500	LA7212	
KIA7815A	LA4505	LA7221	
KIA7818API	LA4507	LA7222	
KIA7905PI	LA4508	LA7224	
KIA7912PI	LA4510	LA7282	
KIA7915	LA4511N	LA7292	
KIA8127N	LA4555	LA7294	
KIA8210	LA4557	LA7295	
KIA75558P	LA4570M.SMD	LA7297	
KIA75902P	LA4571M.SMD	LA7305N	
KKZ	LA4592.SMD	LA7311	
Code	LA3120	LA7315	
KKZ09	LA3160	LA7320	
KM	LA3161	LA7321	
Code	LA3210	LA7323	
KM6264BL-10	LA3220	LA7330	
KS	LA3246	LA7333	
Code	LA3350	LA7340	
KS5410	LA3361	LA7375	
KWMCC	LA3365	LA7376	
Code	LA3370	LA7384	
KWMCC626A2205	LA3375	LA7390	
L	LA3376	LA7391A	
Code	LA3400N	LA7395	
KWMCC626A2205	LA3401	LA7411	
L	LA3600	LA7416	
Code	LA3607	LA7505	
L130	LA4031P	LA7520	
L130V	LA4032P	LA7530	
L200C	LA4050P	LA5004	LA7530N
L487	LA4051P	LA5004M.SMD	LA7535
L4805CV	LA4101	LA5112N	LA7550
L4810CV	LA4108	LA5512N	LA7555
L4885CV	LA4112	LA5521D	LA7575
L4960	LA4125	LA5522	LA7577V
L5631	LA4126	LA5523	LA7680
L6561	LA4140	LA5524.DIL	LA7685J
L6562N	LA4142	LA5524M.SMD	LA7687A
L6598	LA4145	LA5525	LA7688N
L6598D.S/FACE	LA4147	LA5530	LA7800
L6599D.SMD	LA4162	LA5613	LA7801
L6599N.DIL	LA4170	LA5668	LA7806
	LA4180	LA5700	LA7808
	LA4182	LA6324	LA7812
	LA4183	LA6358N	LA7820
	LA4190	LA6393S	LA7823
	LA4192	LA6458D	LA7824
	LA4200	LA6458S	LA7830
	LA4210	LA6500	LA7831N
	LA4220.MOD.KIT	LA6508	LA7832



Electronic Components

LA7833
LA7835
LA7836
LA7837
LA7838
LA7840
LA7841
LA7845
LA7845N
LA7846N
LA7850
LA7851
LA7853
LA7856
LA7876
LA7900
LA7905
LA7910
LA7913
LA7920
LA7930
LA7952
LA7954
LA9200N.SMD
LA9215
LA47505
LA47532
LA73054.SMD
LA76810A
LA76818A
LA76828A
LA76832
LA78040N
LA78041
LA78045
LAG600
LAM508
LAP512

LB

Code
LB1214
LB1216
LB1258
LB1290
LB1403N
LB1405
LB1415
LB1416
LB1423
LB1436
LB1450
LB1601
LB1620
LB1622
LB1640
LB1641
LB1643
LB1645N
LB1648
LB1650
LB1651
LB1943N

**DISCOUNT STRUCTURE
FOR SEMICONDUCTORS
[NOT ASSORTED]**

25+ -10%
50+ -20%
100+ POA

SAVE

LC

Code
LC3517BML-15.SMD
LC4071B
LC4075B
LC4077B
LC4966
LC7060
LC7120
LC7131
LC7132
LC7207D
LC7250
LC7267
LC7351
LC7537AN.SMD
LC7538N.SMD
LC7800
LC7800N
LC7815
LC7816
LC7818
LC7821N
LC7822
LC7823
LC7860K.SMD
LC7880
LC7881
LC72131M.SMD
LC78211
LC78213
LC89925
LC863324A-5S68
LC863328A-5Z26

LD

Code
LD7575PS.SMD

LF

Code
LF347N
LF351N
LF353N
LF356N
LF357N
LF398N
LF441CN

LM

Code
LM35DZ
LM301AN
LM311P
LM317K
LM317L
LM317T
LM318N
LM319N
LM323K
LM324N
LM331N
LM335Z
LM337K
LM337T
LM339N
LM340T-5
LM340T-12
LM348N
LM349N
LM350K
LM350T
LM358-SOP-8P.SMD
LM358P/N.D.I.L
LM359N
LM361N
LM379S
LM380-8P
LM380-14P
LM382N
LM383T
LM386N.=
LM389
LM390N
LM392N
LM393D.SMD
LM393N.8.PIN.DIL
LM555N
LM556CN
LM567CN
LM709CN-8
LM723CH.METAL.CASE
LM723CN
LM725CN
LM733CN
LM741CN
LM747CN
LM748CN
LM833N
LM1011N
LM1111CN
LM1201N
LM1203N
LM1205N
LM1207N
LM1279N
LM1282N
LM1310N
LM1496N-14P
LM1820
LM1868
LM1871
LM1872N
LM1875T
LM1876T
LM1877N-9
LM1881N
LM1886N
LM1894N
LM1895N
LM2402T
LM2405T
LM2406T
LM2407T
LM2427T
LM2435T
LM2439T
LM2469TA
LM2575HVT-ADJ
LM2576S-5.0
LM2576T-5.0
LM2576T-ADJ
LM2594N-5.0
LM2896
LM2901N.IC.DIL
LM2902N
LM2903N
LM2904N
LM2907N-8
LM2917N-8
LM2917N-14

LM2940CT-5.0

LM3046

LM3086N

LM3146N

LM3524

LM3875T

LM3876T

LM3886T

LM3886TF

LM3900N

LM3909N

LM3911N

LM3914N

LM3915N

LM4250CN

LM4651N

LM4652TF

LM4700T

LM4700TF

LM4752T

LM4765T

LM4766T

LM6402G-2240

LM7000N

LM7001

LM8361

LM8362

LM8363

LM8560

LM13600N

LMC555CN

LMM

Code

LMM51413ASP

LT

Code

LT1071CT

LT1083CP

LT1084CT-12

LTV

Code

LTV817B

LV

Code

LV1116N.SMD

M

Code

M490BB1

M491BB1

M3872FNB1

M5130

M5134P

M5143P

M5144P

M5152L

M5186P

M5193P

M5194AP

M5201AL

M5218AFP.SMD

M5218AP

M5218L

M5219L

M5223L-SIL

M5223P-DIL

M5224P

M5227P

M5228FP.SMD



M5228P	M51953BL.SIL
M5230L	M51954AL
M5236L.TO92L.CASE	M51957BL
M5236ML.SMD	M51971L
M5237L.TO92L.CASE	M51977P
M5243P12	M51978P
M5248P	M51995
M5269L	M52038ASP
M5282FP.SMD	M52326SP
M5283P	M52327SP
M5320	M52340SP-A
M34300-012SP	M52343SP
M34300-604SP	M52343SP-C
M37210M4-526SP	M52348SP
M37417M4-127SP	M52440ASP
M37417M4-161SP	M52760SP
M37418E6-511SP	M52770ASP
M50115P	M52771ASP
M50124-001SP	M52777SP.B
M50431-101SP	M52778SP-A
M50436-560SP	M52797SP
M50436-561SP	M53216P
M50455-001SP	M53274
M50560-001P	M54514P
M50731-610SP	M54517P
M50790SP	M54519P
M51014L	M54523P
M51102L	M54532P
M51131L	M54543AL
M51132L	M54544L
M51143L	M54548L
M51161P	M54549L
M51164AL	M54566P
M51202	M54641L
M51207L	M54644BL
M51231P	M54646AP
M51303P	M54648L-D
M51308SP	M54649L
M51310AP	M54819L
M51320P	M54832P
M51321P	M54889P
M51326P	M56730ASP
M51353P	M56731SP
M51354AP	M56732L
M51365SP	M57721
M51366SP	M57782
M51382P	M58485P
M51384AP	M58653P
M51387P	M58655P
M51390ASP	M58658P
M51392P	M58659P
M51393AP	M62359P
M51397AP	M62420SP
M51399P	M66006FP.SMD
M51408SP	M67754
M51413ASP	MA
M51454L	Code
M51496P	MA1050
M51502L	MA2830
M51513L	MA2831
M51514L	MA3810
M51521L	MA3910
M51522L	MA8910
M51523AL	MA8920
M51542L	MAB
M51660L	Code
M51712FP.SMD	MAB8461P-W115
M51712SP.DIL	
M51721L	
M51721SL	
M51728L	
M51782ASP	
M51903L	

MB

Code	MB3106
	MB3712
	MB3713
	MB3731
	MB3756
	MB3759.DIL
	MB3759FP.SMD
	MB4204M
	MB8841-679J
	MB8841-1363J
	MB88201
	MB88301A
	MB88303
	MB88305
	MB88401-161K
	MB88401-206M
	MB88401-217L
	MB88401-232M
	MB88401-233K
	MB88501-158M
	MB88501-284M
	MB88501-448M
	MB88505-266M
	MB88521-140M
	MB88525-152M
	MB88525-181G
	MB88536-122L
Code	MC1327
	MC1330A2P
	MC1349
	MC1352P
	MC1364
	MC1377
	MC1391P
	MC1458N
	MC1488N
	MC1489P
	MC1496P
	MC3302P
	MC3361BP
	MC3362P
	MC3403P
	MC3423P
	MC3486N
	MC3487
	MC5156
	MC6529P
	MC13020P
	MC13309T3
	MC14015
	MC14106BCP
	MC14410P
	MC33260P
	MC34064P5
	MC34067P
	MC44603AP-14PIN
	MC44603AP-16PIN
	MC44604P-16PIN
	MC44608P40
	MC145026P
	MC145027P
	MC145028P
	MC145162P

MCZ

Code	MCZ3001D
	MCZ3001DA
	MCZ3001DB

MD

Code	MD1422N.S/MNT
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MDA

Code	MDA2060
	MDA2062-ITT

MIP

Code	MIPO253
	MIPO254
	MIP2C1
	MIP184
	MIP281
	MIP411

MK

Code	MK1210
	MK5173N

MM

Code	MM5316
	MM5387
	MM5456N

MN

Code	MN1219
	MN1220
	MN1220T
	MN1225
	MN1228
	MN1280
	MN1430TJ
	MN2488
	MN3102
	MN3207
	MN6014A
	MN6163A
	MN6168VIA
	MN14831FVK
	MN15151TKV
	MN15245KWC
	MN15245SAY-1
	MN15261VQY
	MN15283VJU
	MN15311VBS
	MN15362VBR
	MN15362VBX
	MN15823VGQ
	MN1873284TK

MOC

Code	MOC3021
	MOC3041
	MOC3042
	MOC3061
	MOC8104



Electronic Components

MR	NN	PQ	SAP
Code MR1722	Code NN5099K	Code PQ05RD11	Code SAP15N
MR2920		PQ05RF1	SAP15P
MR4020		PQ05RF1V	SAP16N
MR4030		PQ05RF11	SAP16P
MR6710-7PINS		PQ05RR12	SAP17N
MR6710-8PINS		PQ05RR13	SAP17P
MSM	PAC	PQ	SAS
Code MSM6965-3	Code PA3002	PQ09RD11	Code SAS560S
MSP	PA3012	PQ3RD13	SAS570S
Code MSP1250-ADJS		PQ12R04	SAS580
MX	PAL	PQ12RF11	SAS590
Code MX5503	Code PAL003A	PQ12RF21	SAS660
NC	PAL005A		SAS670
Code NC8061	PAL006A		
NC8500	PAL007A		
	PAL007B		
	PAL007C		
NE	PC	PS	SCN
Code NE542N	Code PC111S	Code PS2561.PHOTO.	Code SCN2637A
NE545B	PC113	COUPLER	
NE555D-SOP-8P.SMD	PC120	PS6002A	
NE555P	PC121FY		
NE556	PC123		
NE558C	PC713		
NE645N	PC714		
NE657N	PC813		
NE5044	PC814		
NE5532P	PC816		
NE5534P	PC817		
NJM	PCA	PS	SD
Code NJM79M15A	Code PCA84C440P-401	Code RSN35H1A-P	Code SD3143N
NJM2068D-8PIN	PCA84C443P-159	RSN35H2	SD3624A
NJM2068L.SINGLE. IN.LINE	PCA84C640P-015	RSN307M42	
NJM2068M.SMD	PCA84C640P-133	RSN307N44A-P	
NJM2073D	PCA84C640P-158	RSN308M22	
NJM2233S	PCA84C640P/030	RSN308M24	
NJM2245L.SIL	PCA84C640P/049	RSN311W64	
NJM2606D	PCA84C640PSAC2	RSN312H24	
NJM2904S	PCA84C841/076S1	RSN313H25	
NJM3403AD	PCA8581P	RSN314H41	
NJM3404S		RSN315H42B	
NJM4556AD		RSN3403	
NJM4558D		RSN3502	
NJM4558L.SIL		RSN6000B	
NJM4558LD			
NJM4559D			
NJM4560D			
NJM4560S.SIL			
NJM4562D			
NJM4580D-D.DIL			
NJM4580D.DIL			
NJM4580L.SIL			
NJM4580M.SMD			
NJM5532L			
PIC	PLS	SAA	SDH
Code 12C508A	Code PLS105N	Code SAA1000	Code SDH209B
PCF		SAA1010	
Code PCF8571P		SAA1024	
PCF8574T.SMD		SAA1025	
PCF8581P		SAA1124	
PCF8582AP		SAA1290-02	
PIC		SAA1293-03	
Code 12C508A		SAA3006P	
PLS		SAA3010P	
Code PLS105N		SAA3027P	
SAB		SAA4700	
Code SAB3013		SAA5010	
SAB3035		SAA5012	
SAF		SAA5020	
Code SAF1032P		SAA5030	
SAF1039		SAA5231	
		SAA5243P/E	
		SAA9057A	
DISCOUNT STRUCTURE FOR SEMICONDUCTORS [NOT ASSORTED]	SAVE		
25+	-10%		
50+	-20%		
100+	POA		



SI	STA506.SMD	STK402-100S	STK433-330
Code	STA508A	STK402-120	STK435
SI1010G	STA509A	STK402-120S	STK436
SI3052P	STA518.SMD	STK402-230	STK437
SI3052V	STA521A	STK402-240	STK439
SI3120F		STK402-250	STK441
SI3122V		STK402-270	STK442-070
SI3132V		STK402-930	STK442-110
SI3152V	STD	STK402-950	STK442-130
SI3922V	STD03N	STK403-070	STK443
SI7200M	STD03P	STK403-130	STK443-050
SI7300A		STK403-430	STK443-070
SI8053B	STK	STK404-070	STK443-090
SI8100D	Code	STK404-100S	STK443-530
SI18751	STK0025	STK404-130S	STK457
SI18752	STK0029	STK404-140	STK459
	STK0030	STK404-140S	STK460
	STK0039	STK405-030	STK461
	STK0040	STK405-050A	STK463
SK	STK0050	STK405-070A	STK465
Code	STK0050-2	STK405-090A	STK470-020A
SK18751	STK0055	STK405-100A	STK470-050A
SK18752	STK0059	STK407-040	STK488-010
SLA	STK0060	STK407-050	STK488-020
Code	STK0080	STK407-090	STK488-050
SLA4342	STK0080-2	STK407-090B	STK495-020
SLA4501M	STK0105	STK407-090E	STK496-070
SLA5046	STK011	STK407-100	STK499-070
SMR	STK014	STK407-120E	STK730-060
Code	STK0177	STK407-270	STK730-080
SMR40200-IC	STK0231	STK407-290	STK732.7.PIN
SMR40200-KIT	STK030	STK408-090E	STK752
SMR60000	STK043	STK410-030	STK760
	STK078	STK411-220E	STK772B
SN	STK080	STK411-230E	STK780
Code	STK082	STK411-240E	STK795
SN7430N	STK082G	STK411-290E	STK795-518
SN16848	STK083G	STK411-550G	STK795-811A
SN29770	STK084	STK412-000	STK1050-2
SN29771BN	STK084G	STK412-010	STK1050A
SN76115N	STK086	STK412-020	STK1060-2
SN76227	STK086G	STK412-030	STK1070
SN76228N	STK350-030	STK412-040	STK1070-2
SN76550	STK350-130A	STK412-150	STK1080-2
SN76604N	STK350-230	STK412-210	STK2028
SN76666	STK350-630T	STK412-220A	STK2029
	STK391-020	STK412-230	STK2030
SS	STK392-010	STK412-240	STK2038
Code	STK392-020	STK412-400	STK2040
SS1001	STK392-040	STK412-410	STK2125
ST	STK392-110	STK412-430	STK2129
Code	STK392-120	STK413-000	STK2139
ST02	STK392-150	STK413-010A	STK2230
STA	STK392-560	STK413-010B	STK2240
Code	STK392-570	STK413-020A	STK2250
STA301A	STK394-210	STK413-220A	STK2260
STA321A	STK394-250	STK413-230	STK3042
STA326	STK396-120	STK413-400	STK3042-2
STA328	STK396-130	STK413-420	STK3042-3
STA341M	STK401-040	STK413-430	STK3044
STA401A	STK401-050	STK419-130	STK3062
STA403A	STK401-090	STK419-150	STK3062-2
STA404A	STK401-110	STK432-050	STK3062-3
STA405A	STK401-120	STK432-070	STK3062A
STA431A	STK402-020	STK432-090	STK3082-2
STA432A	STK402-030	STK433	STK3102-3
STA434A	STK402-040	STK433-040	STK3102-4
STA435A	STK402-050	STK433-050	STK3122-3
STA432A	STK402-070	STK433-060	STK3152-2
STA434A	STK402-070S	STK433-070	STK3152-3
STA441C	STK402-071N	STK433-090	STK4021
STA451C	STK402-090	STK433-130	STK4026
STA471A	STK402-090S	STK433-300	STK4026V
STA505.SMD	STK402-100		



Electronic Components

STK4028V	STK4893	STR	STR81145A
STK4030-2	STK4913	Code	STR81159
STK4032-2	STK5314	STR370	STR83145
STK4036	STK5315	STR371	STR83159
STK4036-2	STK5322H	STR371A	STR90120
STK4036V	STK5325	STR380	
STK4036X.(10)	STK5331	STR381	
STK4038-2	STK5333S	STR440	
STK4040-2	STK5335	STR450	
STK4040V	STK5337	STR450A	
STK4042-2	STK5338	STR451	
STK4042V	STK5339A	STR455	
STK4042XI	STK5339B	STR456A	
STK4044-2	STK5340	STR1096	
STK4044XI	STK5352	STR1195	
STK4048-V	STK5361	STR1229	
STK4048-X1	STK5362	STR2012	
STK4050-2	STK5372H	STR2013	
STK4050V	STK5391	STR3105	
STK4065	STK5392	STR3125	
STK4101-2	STK5421	STR3130	
STK4111-2	STK5422	STR4090	
STK4112-2	STK5434	STR4090A	
STK4121-2	STK5446	STR4090L	
STK4122-2	STK5451	STR4090S	
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STK4142-2	STK5478	STR5314	
STK4151-2	STK5481	STR5395	
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STK4161V	STK6722H	STR11006	
STK4162-2	STK6884H	STR16006	
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STK4181-2	STK6972C	STR30115	
STK4181V	STK6982B	STR30123	
STK4182-2	STK6982H	STR30130	
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STK4191V	STK7226	STR40090	
STK4192-2	STK7251	STR40115	
STK4197-2	STK7308	STR41090	
STK4201-2	STK7309	STR44115	
STK4211-2	STK7348	STR45111	
STK4211V	STK7356	STR50092	
STK4221-2	STK7358	STR50100	
STK4221V	STK7359	STR50103A	
STK4231-2	STK7404	STR50112A	
STK4241-2	STK7404H	STR50113	
STK4273	STK7406	STR50113-M-KIT	
STK4274	STK7406H	STR50115	
STK4277	STK7408	STR50115A	
STK4278	STK7410	STR50115B	
STK4278L	STK7458	STR50213	
STK4301	STK7561J	STR50215	
STK4311	STK7563F	STR50330	
STK4332	STK8040	STR51213	
STK4352	STK8050	STR51330	
STK4362	STK8250	STR51424	
STK4372	STK8260	STR52041	
STK4392	STK8260-2	STR53041	
STK4412	STK73405-2	STR54041	
STK4432	STK73410	STR55041	
STK4803	STK73410-2	STR56041	
STK4833	STK73605	STR58041-IC	
STK4843	STK73907	STR59041	
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STK4873	STK79315A	STR80145A	



STRG	STRW6754	TA	TA7302P
Code	STRW6756	Code	TA7303
STRG5623	STRW6765	TA78L006AP	TA7310P
STRG5653	STRW6853	TA79L006P	TA7312AP
STRG6153	STRW6853P	TA1215AN	TA7313P
STRG6153T	STRW6856	TA1216AN	TA7315BP
STRG6351		TA1219AN	TA7320P
STRG6352		TA1222BN	TA7321P
STRG6353		TA1232AN	TA7322P
STRG6551	STRX6454	TA2020-020	TA7323
STRG6651	STRX6456	TA2024.SMD	TA7324P
STRG6653	STRX6459	TA2092N	TA7325P
STRG8656	STRX6468	TA7060P	TA7328AP
STRG9656	STRX6556	TA7061AP	TA7331
STRM	STRX6750B	TA7061BP	TA7333P
Code	STRX6756	TA7070P	TA7335
STRM6511	STRX6757	TA7071P	TA7336
STRM6523	STRX6759	TA7073AP	TA7337P
STRM6529	STRX6768	TA7074P	TA7339P
STRM6545	STRX6769	TA7089P	TA7342P
STRM6546		TA7093P	TA7343P
STRM6559		TA7120P	TA7347P
STRM6811	STRY6766	TA7122BP	TA7348P
STRM6821A		TA7130P	TA7349P
STRM6831A		TA7136AP	TA7355P
STRM6833A		TA7137	TA7357P
STRM6833B		TA7140P	TA7358AP
STRNW	STRZ2062	TA7145P	TA7361AP
Code	STRZ2589	TA7156	TA7370P
STRNW6853	STRZ4202A	TA7157AP	TA7374P
	STRZ4267	TA7170	TA7401AP
	STRZ4302	TA7176AP	TA7402P
	STRZ4479	TA7178	TA7504P
STRS		TA7193AP	TA7504S
Code		TA7193P	TA7506P
STRS5141G	STV2238D.SMD	TA7202	TA7604AP
STRS5706	STV2248C	TA7203	TA7607AP
STRS5707	STV2248H	TA7205AP	TA7608CP
STRS5717	STV5109	TA7207	TA7609P
STRS5741	STV5112	TA7214P	TA7611AP
STRS5841	STV8131	TA7217	TA7613
STRS5941	STV8164	TA7222AP	TA7616P
STRS6301A	STV8172A	TA7224P	TA7621P
STRS6308	STV9302A	TA7225P	TA7622AP
STRS6309	STV9306	TA7230P	TA7628
STRS6525	STV9306A	TA7232P	TA7629P
STRS6533	STV9325	TA7233P	TA7630P
STRS6545	STV9379.IC	TA7240	TA7632P
STRS6706	STV9379A	TA7241AP	TA7634AP
STRS6707	STV9379FA	TA7245BP	TA7636
STRS6708		TA7245F	TA7639P
STRS6708A		TA7248P	TA7640AP
STRS6709		TA7248P-R	TA7644CP
STRS6709A		TA7250BP	TA7654AP
STRS6718		TA7252P	TA7657P
STRT	SVI3101D	TA7256P	TA7658P
Code	SVI3102D	TA7257P	TA7666P
STRT-G6153		TA7259P	TA7668BP
STRW		TA7262P	TA7672P
Code		TA7265AP	TA7673
STRW5753A	SVS-866	TA7267P	TA7676AP
STRW6251		TA7270P	TA7680AP
STRW6252		TA7271	TA7688F.SMD
STRW6253	SZM-137M3	TA7274P	TA7688P
STRW6262A	SZM-137PV	TA7279P	TA7698AP
STRW6553A	SZM-143RV	TA7280P	TA7699AP
STRW6554A		TA7281P	TA7710P
STRW6556A		TA7282AP	TA7719P
STRW6654		TA7283P	TA7731P
STRW6750F		TA7288P	TA7736F.SMD
STRW6753		TA7291P	TA7739P
		TA7291S	TA7745P
		TA7299P	TA7750P
SZM			



Electronic Components

TA7757P	TA8428K	TBA440N
TA7758P	TA8432K	TBA510
TA7769P	TA8445K	TBA520
TA7772P	TA8606N	TBA530
TA7778P	TA8607P	TBA540
TA7784P	TA8611AN	TBA570A
TA7792F.SMD	TA8617S	TBA720A
TA8025P.DIL	TA8628N	TBA750C
TA8051P	TA8631N	TBA750Q
TA8100F.SMD	TA8632N	TBA760
TA8101N	TA8637BP	TBA800
TA8102P	TA8644N	TBA810AP
TA8104F.SMD	TA8653N	TBA810S
TA8110AP	TA8659AN	TBA820-8PIN
TA8119P	TA8662N	TBA820-14PIN
TA8122AN	TA8690AN	TBA920
TA8126S.SIL	TA8691N	TBA940
TA8127F.SMD	TA8701N	TBA970
TA8127N	TA8710S	TBA990Q
TA8164P	TA8718N	TBA1440G
TA8167N	TA8719AN	
TA8189N	TA8720AN	
TA8191F.SMD	TA8739P	TC
TA8192F.SMD	TA8759AN	Code
TA8200AH	TA8759BN	TC3001A
TA8201AK	TA8776N	TC4052BF.S/FACE.
TA8205AH	TA8782N	MNT
TA8207K	TA8822SN	TC4053BF.SMD
TA8210AH	TA8844N	TC5022BP
TA8211AH	TA8859AP	TC5066BP
TA8213K	TA8859CP	TC5082P
TA8215H	TA8867N	TC5090AP
TA8215L	TA8871N	TC5518CFL15.SMD
TA8216H	TA8880CN	TC7129
TA8217P	TA9090AN	TC8578AP
TA8218AH	TA31001P	TC9106BP
TA8220H	TA75339P	TC9109BP
TA8221AL	TA75393P	TC9121P
TA8221H	TA75458P.DIL	TC9123P/BP
TA8223K	TA75458S.SIL	TC9130P
TA8225H	TA75558P.DIL	TC9137BP
TA8227P	TA75558S.SIL	TC9145P
TA8229K	TA75902P	TC9146AP
TA8232H		TC9147BP
TA8238K		TC9148P
TA8246H		TC9149P
TA8248K		TC9150P
TA8251AH		TC9152P
TA8254BH		TC9153AP
TA8255AH		TC9154AP
TA8256BH		TC9157AP
TA8258H		TC9162N
TA8259HQ		TC9163N
TA8260H		TC9164N
TA8262H		TC9167P
TA8263BH		TC9172AP
TA8263BHQ		TC9174P
TA8264AHQ		TC9176P
TA8266H		TC9177P
TA8268HS		TC9200AF.SMD
TA8271H		TC9200BF
TA8272H		TC9201BF.SMD
TA8273H		TC9212P
TA8276H		TC9227P
TA8277H		TC9245N
TA8401F.SMD		TC9274N-011
TA8402F.SMD		TC9284BF.SMD
TA8403K		TC9299P
TA8405S		TC9302AF-011
TA8406P		TC9307AF-004.SMD
TA8410K		TC31018AP
TA8424F.SMD		TC89101
TA8427K		TBA396
		TBA440C1

TCA

Code
TCA270S
TCA290A
TCA420A
TCA440
TCA640
TCA650
TCA730
TCA750
TCA800
TCA810A
TCA830A
TCA830S
TCA940
TCA8305M

TCM

Code
TCM80A

TD

Code
TD6104P
TD6301AP
TD6358N
TD6359N
TD6360N
TD6710AN
TD62064AP
TD62083AP
TD62105P
TD62304P
TD62308AP
TD62501P
TD62706P

TDA

Code
TDA1001B
TDA1010A
TDA1011
TDA1011A
TDA1013A
TDA1013B
TDA1015
TDA1020
TDA1024
TDA1047
TDA1054M
TDA1060
TDA1082
TDA1083
TDA1170N
TDA1170S
TDA1175
TDA1175P
TDA1180P
TDA1301T.SMD
TDA1352B
TDA1412
TDA1420
TDA1510A
TDA1514A
TDA1515BQ
TDA1516BQ
TDA1516Q
TDA1517-9PIN
TDA1517P
TDA1518Q
TDA1519
TDA1519A
TDA1519AQ



TDA1519B	TDA2822.16.PIN	TDA4685	TDA7309D.SMD
TDA1520B	TDA2822M.8.PIN	TDA4687	TDA7313D.SMD
TDA1521	TDA2840	TDA4780	TDA7318D
TDA1521A	TDA3190	TDA4780/V4	TDA7330B
TDA1522	TDA3301B	TDA4800	TDA7350A
TDA1524A	TDA3504	TDA4850	TDA7360
TDA1526	TDA3505	TDA4851	TDA7362
TDA1540P	TDA3541	TDA4852	TDA7365
TDA1543	TDA3560-PHILLIPS	TDA4855	TDA7370B
TDA1545A	TDA3561A	TDA4856	TDA7372A
TDA1552Q	TDA3562A-PHI.	TDA4858	TDA7374B
TDA1554Q	PHILIPS	TDA4860	TDA7375A
TDA1557Q	TDA3562A-SGS	TDA4861	TDA7377
TDA1558Q	TDA3562A-TFK	TDA4863AJ	TDA7379
TDA1562Q	TDA3565	TDA4866	TDA7381
TDA1576	TDA3566	TDA4866J	TDA7384
TDA1578A	TDA3566A	TDA4867J	TDA7385
TDA1670A	TDA3571BQ	TDA4881	TDA7386
TDA1675A	TDA3576B	TDA4885	TDA7388
TDA1771	TDA3603P	TDA4886A	TDA7394
TDA1870A	TDA3651	TDA4950	TDA7429S
TDA1904	TDA3651A	TDA5850	TDA7439
TDA1905	TDA3651AQ	TDA5930-5	TDA7440D.SMD
TDA1910	TDA3652	TDA6101Q	TDA7454
TDA1940.MEV	TDA3652AQ	TDA6103Q	TDA7480
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TDA1950	TDA3653C	TDA6107JF	TDA7490
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TDA2006	TDA3800GS	TDA6111Q	TDA7560
TDA2007	TDA3803A	TDA6118JF	TDA7560A
TDA2008	TDA3810	TDA6120Q	TDA7561
TDA2009A	TDA3857	TDA6600	TDA7562
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TDA2050V	TDA4437	TDA7056	TDA8138
TDA2052	TDA4439-TFK	TDA7056A	TDA8138A
TDA2540	TDA4445B	TDA7056B	TDA8139
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TDA2541Q	TDA4472	TDA7072A	TDA8146
TDA2542	TDA4480	TDA7073A	TDA8153
TDA2545A	TDA4500	TDA7211A	TDA8170
TDA2545AQ	TDA4501	TDA7222A	TDA8172
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TDA2578A	TDA4565	TDA7250	TDA8179S
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TDA2591	TDA4601B.DIL	TDA7266	TDA8303A
TDA2593	TDA4601D	TDA7266S	TDA8305A
TDA2595	TDA4601ST.SGS	TDA7267-8P	TDA8341
TDA2611A	TDA4605	TDA7267A-16P	TDA8350Q
TDA2613	TDA4605-2	TDA7269	TDA8351/N6
TDA2614	TDA4605-3	TDA7269A	TDA8354Q
TDA2615	TDA4610	TDA7273	TDA8356
TDA2616	TDA4650	TDA7274	TDA8357J
TDA2616Q	TDA4660	TDA7293V	TDA8358J
TDA2750	TDA4661	TDA7294	TDA8359J
TDA2760	TDA4662	TDA7294V	TDA8360
TDA2790	TDA4665	TDA7295	TDA8360E
TDA2791	TDA4680	TDA7296	TDA8361
TDA2795	TDA4681	TDA7297	TDA8361A



Electronic Components

TDA8361E	TDA9801T.SMD
TDA8362/N5	TDA9803
TDA8362B	TDA9821
TDA8362E	TDA9840
TDA8366N3	TDA9852
TDA8370	TDA9859
TDA8374	TDA9859H.SMD
TDA8374A	TDA9860
TDA8375A	TDA9870A/V2
TDA8375AH.SMD	TDA9873H.SMD
TDA8376	TDA9875A
TDA8380A	TDA9885TS.SMD
TDA8395	TDA16833
TDA8405	TDA16846P
TDA8415	TDA16888G.SMD
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TDA8885H.SMD	
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TDA8922BJ	
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TDA8950TH-SMD	
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TDA9112	
TDA9113	
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TDA9302H	
TDA9321H.SMD	
TDA9330H.SMD	
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TDA9361PS/N2/4I0789	
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TDA9370PS/N2/A/1201	
TDA9381PS/0838	
TDA9535	
TD9800	

Code	TL074CN.DIL
Code	TL081CP
Code	TL082
Code	TL084CN
Code	TL431CLP
Code	TL431CP.DIL
Code	TL489CP
Code	TL494CF
Code	TL494CN
Code	TL497ACN
Code	TL594CN
Code	TL3842
Code	TL3842P
Code	TL8709P
TLP	
Code	TLP350
Code	TLP521
Code	TLP581
Code	TLP621
Code	TLP627
Code	TLP632
Code	TLP633
Code	TLP651
Code	TLP721
Code	TLP721F
Code	TLP732
Code	TLP3063
TMP	
Code	TMP47C420AF
Code	TMP47C434AN-R231
Code	TMP47C434N-3147
Code	TMP47C434N-3526
Code	TMP47C434N-3537
Code	TMP47C434N-R221
Code	TMP47C634N-2465
Code	TMP47C834N-R161
Code	TMP47C834N-R165
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Code	TMS1025N2LL
Code	TMS1943N2L
Code	TMS1944N2L
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Code	TNY256PN
Code	TNY264P
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Code	TNY266P
Code	TNY267PN
Code	TNY268PN
Code	TNY274PN
Code	TNY276PN
Code	TNY277PN
Code	TNY280P
TOP	
Code	TOP223P
Code	TOP258PN

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TSC	
Code	TSC7106CPL
Code	TSC7126
U	
Code	U410B
Code	U416B
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Code	U2829B
Code	U4614B
Code	U4646B-TFK
UA	
Code	UA703
Code	UA733
Code	UA741CN
Code	UA747CN
Code	UA7805F
UC	
Code	UC3524AN
Code	UC3818N
Code	UC3842B
Code	UC3842N
Code	UC3842P
Code	UC3843
Code	UC3843.SMD
Code	UC3843B
Code	UC3844
Code	UC3844AN
Code	UC3845
Code	UC3846N
Code	UC3882
UCC	
Code	UCC3818N
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Code	UHIC005
ULN	
Code	ULN204B
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Code	ULN2002
Code	ULN2003
Code	ULN2004
Code	ULN2023A
Code	ULN2110A
Code	ULN2803A
Code	ULN2804A
Code	ULN3782M
UM	
Code	UM9151
Code	UM91210C
UPA	
Code	UPA53C
Code	UPA68HA
Code	UPA81C



UPB	UPC1350C	UTCS	X0427AG
Code	UPC1351C	Code	X0431GE
UPB571C	UPC1356C2	UTCS8050	X0438CE
UPC	UPC1362C	UTCS8550	X0439CE
Code	UPC1363C	VI	X0448GE
UPC17C	UPC1363CA	Code	X0465CE
UPC29C2	UPC1364C	VI614140SA05	X0506CE
UPC41C	UPC1365C	VIPER	X0512CE
UPC324C	UPC1373H	Code	X0571GE
UPC339C	UPC1377C	VIPER12A	X0601CE
UPC358C	UPC1378H	VIPER20A-5PIN	X0602CE
UPC358G.SMD	UPC1379	VIPER20A-8PIN	X0603CE
UPC393C	UPC1382C	VIPER22A	X0640CE
UPC494C	UPC1384C	VIPER22A-SMD	X0689CE
UPC554C	UPC1391H	VIPER53	X0712CEN1
UPC566H	UPC1394C	VIPER100	X0715CE
UPC574J	UPC1397C	VIPER100ASP.SMD	X0731CE
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UPC577H	UPC1420CA	VPG101T	X0986GE
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UPC592H2	UPC1474HA	X0031CE	X1013GE
UPC1018C	UPC1475HA	X0035TA	X1040AF
UPC1020H	UPC1488H	X0037CE	X1118CE
UPC1024H2	UPC1490HA	X0038TA	X1148
UPC1026	UPC1498	X0040TA	X1192AF
UPC1028	UPC1504C	X0053CE	X1195AF
UPC1031H2	UPC1505C	X0054CE	X2144CE
UPC1032H	UPC1513HA	X0063CE	XL
UPC1094C	UPC1514CA	X0065CE	Code
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UPC1095G	UPC1519HA	X0109CE	XLU
UPC1154H	UPC1524C	X0122GE	Code
UPC1161C3	UPC1525C	X0129CE	XLU2896K.SMD
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UPC1185H	UPC1651G	X0200CE	XRA7039
UPC1188H	UPC1853CT	X0203GE	YC
UPC1191V	UPC1891ACY	X0205CE	Code
UPC1197	UPC2002	X0206CE	YC2080
UPC1210C	UPC2500H	X0214CE	Z
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UPC1215V	UPC4557C	X0226GE	Z0032WREO
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UPC1228HA	UPC4570G.SMD	X0256CE	
UPC1230H2	UPC4570HA.SIL	X0261CE	
UPC1237HA	UPC7915H	X0262CE	
UPC1238	UPC7918H	X0262GE	
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UPC1296G	UPD1701C-013	X0308.SUBSTITUTE	
UPC1297CA	UPD1701C-014	X0313CE	
UPC1298V	UPD1987C	X0319CE	
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UPC1310V	UPD7507HC-070	X0329GE	
UPC1313HA	UPD22100C	X0355CE	
UPC1316C	UPD75008GBE04	X0365CE	
UPC1318AV	UPD75106CW-103	X0416AG	
UPC1335V	UPD75208CW-105		
UPC1342V	UPD75208CW-219		

DISCOUNT STRUCTURE
FOR SEMICONDUCTORS
[NOT ASSORTED]

25+	-10%
50+	-20%
100+	POA





Electronic Components

□ IC Sockets

LOW PROFILE IC SOCKETS

Pins	Width	Code
6	7.5 mm	ICS6
8	7.5 mm	ICS8
14	7.5 mm	ICS14
16	7.5 mm	ICS16
18	7.5 mm	ICS18
20	7.5 mm	ICS20
22	7.5 mm	ICS22
24	7.5 mm	ICS24S
24	15 mm	ICS24
28	7.5 mm	ICS28S
28	15 mm	ICS28
32	15 mm	ICS32
40	15 mm	ICS40
42	15 mm	ICS42

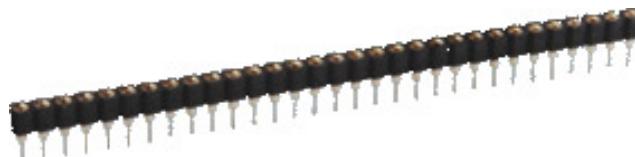


Discount
Non-assorted
24+ (-10%)
50+ (-20%)
100+ (-30%)

IC SOCKET PINS

Simply cut to size.
Gold plated contacts.

Pins	Code
20	ICP20
32	ICP32



□ Regulators

VOLTAGE REGULATORS TO92 100mA

Voltage	Code
+5	78L05
+6	78L06
+8	78L08
+9	78L09
+10	78L10
+12	78L12
+15	78L15
+18	78L18
+24	78L24
-5	79L05
-6	79L06
-8	79L08
-9	79L09
-12	79L12
-15	79L15
-18	79L18
-24	79L24



VOLTAGE REGULATORS TO220 1A

Voltage	Code
+5	L7805CV
+6	L7806CV
+7	L7807CV
+8	L7808CV
+9	L7809CV
+12	L7812CV
+15	L7815CV
+18	L7818CV
+24	L7824CV
-5	L7905CV
-6	L7906CV
-7	L7907CV
-8	L7908CV
-9	L7909CV
-12	L7912CV
-15	L7915CV
-18	L7918CV
-24	L7924CV



VOLTAGE REGULATORS TO3 1.5A

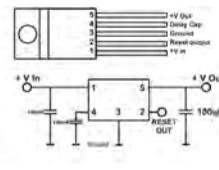
Voltage	Code
+5	L7805CT
+12	L7812CT
-5	L7905CT
-12	L7912CT



VERY LOW DROP WITH RESET TO220 500mA

0.4V drop, with power on/off reset.

Voltage	Code
+5	L487



SMD 5V VOLTAGE REGULATOR

5V 50mA

Code

78LR05

- 1 - INPUT 35Vmax
- 2 - DELAY CAP
- 3 - GROUND
- 4 - RESET OUTPUT
- 5 - REG. OUTPUT



8 PIN VERSION

5V 100mA

Code

78L05-SOP-8P



LOW-DROP 5A LINEAR REGULATOR

3 terminal adjustable or fixed

5.0A Output Current maximum 6.5A

Operates down to 1V Dropout

Maximum input voltage is 12V

AZ1084D

PACKAGE: TO-252

Volts

Code

1.8V AZ1084D-1.8

2.5V AZ1084D-2.5

3.3V AZ1084D-3.3

5.0V AZ1084D-5.0

ADJ AZ1084D-ADJ



AZ1084S

PACKAGE: TO263-3

Volts

Code

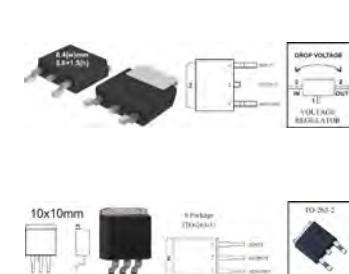
1.8V AZ1084S-1.8

2.5V AZ1084S-2.5

3.3V AZ1084S-3.3

5.0V AZ1084S-5.0

ADJ AZ1084S-ADJ



PACKAGE: TO220

Volts

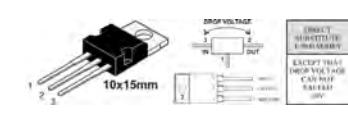
Code

2.5V AZ1084T-2.5

3.3V AZ1084T-3.3

5.0V AZ1084T-5.0

ADJ AZ1084T-ADJ

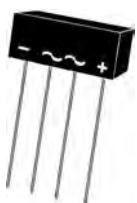




□ Diodes Rectifiers

BRIDGE RECTIFIERS FLAT-PACK

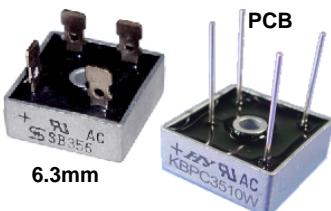
PIV	Vrms	Amps	Code
600V	420V	1.5A	KBP156
400V	280V	4A	KBL404
600V	420V	4A	KBL406
600V	420V	6A	KBU606
1KV	700V	2A	BL2-10
200V	140V	1.5A	KBP152
400V	280V	3.2A	KBU1504



BRIDGE RECTIFIERS HEAVY-DUTY

420Vrms 35A PCB

PIV	Code
600V	BP35-06W



BRIDGE RECTIFIERS HEAVY-DUTY

420Vrms 50A 6.3mm

PIV	Code
600V	BP50-06



BRIDGE RECTIFIERS BLOCK-PACK

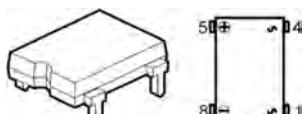
PIV	Vrms	Amps	Code
50	35	1.5	W005
400	280	1.0	W04
600	420	1.5	W06
50	35	3	SB305
200	140	3	SB320
600	420	3	SB360
200	140	6	SB603
600	420	6	SB605



RECTIFIER BLOCK IC SIZE

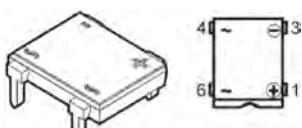
1A(30A peak) 600Vrms
Bridge Rectifier DIL 8 pin sized.
6.5x10.5mm

Code
S1WBA60



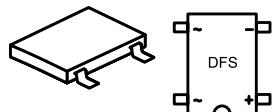
1.5A, 600V (DF06)

Code
DI106



1.5A, 200V, SMD Type

Code
DI102S



PANASONIC INVERTER MICROWAVE OVEN KIT

TWO TRANSISTOR OEM SET

Power Supply Update Kit
Sold together as a kit

Circuit Reference Part No.	Code
Q701 GT60N321 (G60N90)	KIT691
Q702 GT30J322 (6001M30D)	



DIODE PACK 16A COMMON CATHODE

16 Ampere switch mode dual fast recovery power rectifier in 3-pin TO-220AB package.
Operational temperature range -65°C to 150°C.

Description	Code
16A 600Vp (420Vrms) Pos.	F16C60C



DIODE PACK 16A COMMON ANODE

16 Ampere switchmode dual fast recovery power rectifier in 3-pin TO-220AB package.
Operational temperature range -65°C to 150°C.

Description	Code
16A 600Vp (420Vrms) Neg.	F16C60A



SCHOTTKY BARRIER RECTIFIER DIODE PACK

COMMON CATHODE

Dual High Voltage Trench MOS Barrier Schottky Rectifier

Current	Voltage	Code
10A	100V	MBR10100CT
20A	100V	MBR20100CT
20A	200V	MBR20200CT



DIODE PACK 30A COMMON CATHODE

Description	Code
30A 60Vp (42Vrms) Pos.	S30D60C



DIODE PACK 30A COMMON ANODE

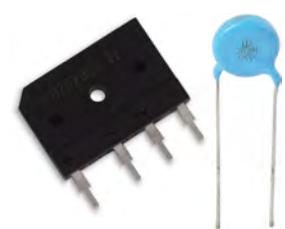
Description	Code
30A 60Vp (42Vrms) Neg.	S30D60A



PANASONIC MICROWAVE RECTIFIER

As used in the "Inverter" type ovens.

Original Part No	Code
AESTRBV6206	D20XB60



MAY ALSO REQUIRE REPLACING

362K 3KV 3600pF

Original Part No	Code
ECKK3FF362KDU	DE3600



Electronic Components

□ Diodes Zener

ZENER DIODES 0.5W

Value	Watt	Code
2.7V	0.5W	.5Z2.7
3.3V	0.5W	.5Z3.3
3.6V	0.5W	.5Z3.6
3.9V	0.5W	.5Z3.9
4.3V	0.5W	.5Z4.3
4.7V	0.5W	.5Z4.7
5.1V	0.5W	.5Z5.1
5.6V	0.5W	.5Z5.6
6.2V	0.5W	.5Z6.2
6.8V	0.5W	.5Z6.8
7.5V	0.5W	.5Z7.5
8.2V	0.5W	.5Z8.2
9.1V	0.5W	.5Z9.1
10V	0.5W	.5Z10
11V	0.5W	.5Z11
12V	0.5W	.5Z12
13V	0.5W	.5Z13
15V	0.5W	.5Z15
16V	0.5W	.5Z16
18V	0.5W	.5Z18
20V	0.5W	.5Z20
22V	0.5W	.5Z22
24V	0.5W	.5Z24
27V	0.5W	.5Z27
30V	0.5W	.5Z30
33V	0.5W	.5Z33
36V	0.5W	.5Z36
39V	0.5W	.5Z39
43V	0.5W	.5Z43
47V	0.5W	.5Z47
56V	0.5W	.5Z56
62V	0.5W	.5Z62
68V	0.5W	.5Z68
75V	0.5W	.5Z75



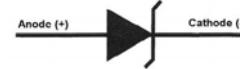
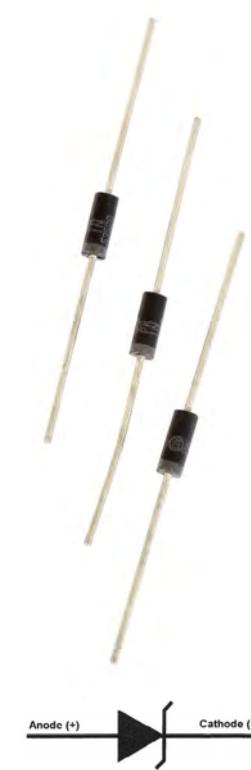
ZENER DIODES 1W

Value	Watt	Code
2.7V	1W	1Z2.7
3.0V	1W	1Z3
3.3V	1W	1Z3.3
3.6V	1W	1Z3.6
3.9V	1W	1Z3.9
4.3V	1W	1Z4.3
4.7V	1W	1Z4.7
5.1V	1W	1Z5.1
5.6V	1W	1Z5.6
6.2V	1W	1Z6.2
6.8V	1W	1Z6.8
7.5V	1W	1Z7.5
8.2V	1W	1Z8.2
9.1V	1W	1Z9.1
10V	1W	1Z10
11V	1W	1Z11
12V	1W	1Z12
13V	1W	1Z13
15V	1W	1Z15
16V	1W	1Z16
18V	1W	1Z18
20V	1W	1Z20
22V	1W	1Z22
24V	1W	1Z24
27V	1W	1Z27
30V	1W	1Z30
33V	1W	1Z33
36V	1W	1Z36
39V	1W	1Z39
43V	1W	1Z43
47V	1W	1Z47
51V	1W	1Z51
56V	1W	1Z56
62V	1W	1Z62
68V	1W	1Z68
75V	1W	1Z75



ZENER DIODES 5W

Value	Watt	Code
3.9V	5W	5Z3.9
4.3V	5W	5Z4.3
4.7V	5W	5Z4.7
5.1V	5W	5Z5.1
6.8V	5W	5Z6.8
7.5V	5W	5Z7.5
8.2V	5W	5Z8.2
9.1V	5W	5Z9.1
10V	5W	5Z10
11V	5W	5Z11
12V	5W	5Z12
13V	5W	5Z13
15V	5W	5Z15
16V	5W	5Z16
18V	5W	5Z18
20V	5W	5Z20
22V	5W	5Z22
24V	5W	5Z24
27V	5W	5Z27
30V	5W	5Z30
33V	5W	5Z33
36V	5W	5Z36
39V	5W	5Z39
43V	5W	5Z43
47V	5W	5Z47
51V	5W	5Z51
62V	5W	5Z62
68V	5W	5Z68
75V	5W	5Z75
91V	5W	5Z91



□ Diodes

DIODES SMD

SOLD IN QUANTITY PACKS

Description	Pack of	Code
Schottky 30Vrms 100mA (x10)	10	BAT54S
Schottky 40Vrms 1A (x5)	5	SS14
Ultrafast 4ns 100Vrms 175mA (x10)	10	BAS16
Ultrafast 6ns 75Vrms 200mA (x10)	10	BAV70
Mini MELF 100Vrms 150mA (x10)	10	MM4148
Switching 75Vrms 150mA (x10)	10	IN4148WS
Rectifier 35Vrms 1A (x10)	10	GS1G
Rectifier 700Vrms 1A (x10)	10	GS1M



STUD DIODE

High surge current 500A/1200A 10mS.
Up to 1200 V VRMM. RoHS compliant.
Nut=18mm, Hole=6.35mm, Height=36mm

Standard is Chassis as Cathode

Current	Type	Volts	Code
40A	Reversed	1200V	40HFR120
70A	Reversed	1200V	70HFR120

Reversed is Chassis as Anode

Current	Type	Volts	Code
40A	Standard	1200V	40HF120
70A	Standard	1200V	70HF120





□ Diodes

DIODES



Description	Code
1A 50V Use 1N4002	1N4001
1A 200V General Purpose/Rectifier Diode	1N4002
1A 400V General Purpose/Rectifier Diode	1N4004
1A 1000V General Purpose/Rectifier Diode	1N4007
0.2A 100V 4nS Fast recovery	1N4148
1A 400V Fast Recovery (Subs to 1N4937)	1N4936
1A 600V Fast recovery	1N4937
3A 400V General Purpose/Rectifier Diode	1N5404
3A 1000V General Purpose/Rectifier Diode	1N5408
Schottky-Gi 40V 1A	1N5819
Low Drop Power Schottky Rectifier 3A	1N5822
Germanium (Gi) 50mA 50V	1N60
1A 100V Small Signal Diode BAW62	1N914B
35V,0.1A eq.BA147/50/87-90,1N5606-09	1S1555
600V 1A Fast recovery BY126/7,33-35,	1S1888
Diode High Speed Switching 55V 350mA	1S2472
35V 100mA Band switching	1SS110
0.11A 40V 4nS Fast recovery	1SS133
Yellow 50V 250mW 1.5nS Switching Diode	1SS254
S,35V,0.1A, 100nS	1SS53
S,100V,0.1A, 100nS	1SS55
0.2A 250V Fast recovery	1SS82
1000V 1A Valley point current diode	BA159
0.25A 250V Switching Diode	BAV21
1,600V 2.5mA General Purpose	BY176
1.2A 50V Special Purpose	BY188
1.75A 1500V TV Damper Diode	BY228
Use BY329-1200	BY229-1000
Use BY329-1200	BY229-800
2A 800V TV Fast recovery	BY299
7A 1200V TV Damper, 150nS	BY329-1200
7A 1500V TV Damper, 300nS	BY359-1500
3A 800V TV Fast recovery	BY399
5A 200V Rectifier Diode	BY550-200
Use 600V	BY550-400
5A 600V Rectifier Diode	BY550-600
200V 0.4A SiDi Cont'Av' 300nS	BYD33D
600V 1.5A SiDi Cont'Av' 250nS	BYV95C
1000V 1A Controlled avalanche Diode	BYV96E
600V 3A Controlled avalanche Diode	BYW95C
1000V 3A Controlled avalanche Diode	BYW96E
Use BY229-600	BYX71-600
600V 3A Fast recovery 50nS	EGP30J
Damper Modulation Diode (3 Pin)	F60B150DS
600V 2A Fast recovery	FR205
1000V 3A Fast recovery	FR307
1000V 6A Fast recovery	FR607
800V 3A Fast recovery 75nS	HER307
40V 200mA Si Switching Diode	MA178
200V 200mA Si Switching Diode	MA185
UHF RTX Power Diode 80V 100mA	MI301
Ge Signal Diode Uni,115V,50mA	OA91
GP Plastic Rectifier (M=1KV) 6A	P600M
173V Zener	R2K
Sharp TV RHEX0397CEZZ	R2KN
Sharp Protection Diode	R2KS
130V Protection diode	R2KY
150V Protection Diode	R2M
1500V 2.5A-IF(AV) 5A-IFSM	RH3F
200V Protection diode	RY23
400V Protection diode	RY24
Use RH2F	SB2C
600V 5A Fast Rectifier TO220 Insulated	STTA506F
Ultrafast Rectifier 1000V 1A (30A Surge)	UF4007
1000V PIV, 700Vrms, 1A Ultra-Fast	UF4008
1000V PIV, 700Vrms, 3A (150A peak) Ultrafast	UF5408
Ultrafast Rectifier 200V 2A (80A Surge)	UG2D



□ Diodes Microwave

MICROWAVE DIODES

Microwave rectifier diodes.

Ends	Code
Diode Only	HVM12
Diode Only	UX-C2B
4.3mm spade to ring	ZA511
6.3mm spade to ring	ZA521



MICROWAVE SHORT PROTECTOR DIODE

Ends	Code
Diode Only	HV6X2P
6.3mm To 6.3mm	ZA530
Diode Only	2X062H



MICROWAVE DIODE SET

Common microwave replacement set. HV6X2P & HV05-12
Supplied already wired with connectors (6mm).
eg. Replacement for SHARP FHD ZA017 WREO

Code
ZA018



MICROWAVE SHORT PROTECTOR

Original cabling A606V5110BP
Diode 2X062H

Code
MWD606



75HVP10 DIODE

Original	75-HVP16
Part No	
Power	16KV, 750mA
Code	HD204M



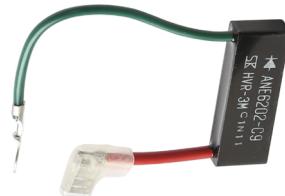
ANE6202B60AP MICROWAVE DIODE

Code
MWD60



ANE6202 DIODE

Original	ANE6202-C90 eq to
Part No	ANE6202-F50
Code	MWD90





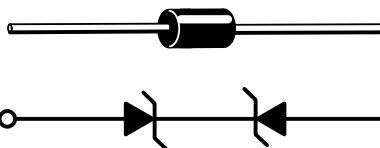
Electronic Components

Transorbs

TRANSORBS DEVICES

TRANSIENT VOLTAGE SUPPRESSORS

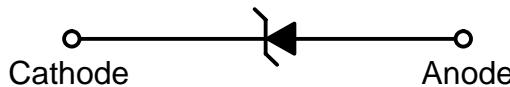
AKA; Transient absorption or suppressor diode, Avalanche diode, Series Protection Diode, etc. Designed specifically to protect sensitive electronics equipment from voltage transients induced by lightning and other transient voltage events. These devices are ideal for the protection of I/O interfaces, Vcc bus and other vulnerable circuits used in automotive, industrial and consumer electronic applications.



MOSORB BI-DIRECTIONAL 1.5KW

Peak Power 1500 Watts @ 1 ms
ESD Rating of Class 3 (>16 kV)
Maximum Clamp Voltage @ Peak Pulse Current
Low Leakage < 5µA Above 10 V
UL497B for Isolated Loop Circuit Protection
Response Time is Typically < 1 ns

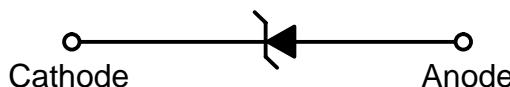
Vmin	Volts	Vmax	I _{max}	Code
6.45	6.8	7.14	143	1.5KE6.8CA
17.1	18	18.9	60	1.5KE18CA
190	200	210	5.5	1.5KE200CA



MOSORB UNI-DIRECTIONAL 1.5KW

Peak Power 1500 Watts @ 1 ms
ESD Rating of Class 3 (>16 kV)
Maximum Clamp Voltage @ Peak Pulse Current
Low Leakage < 5µA Above 10 V
Response Time is Typically < 1 ns
UL497B for Isolated Loop Circuit Protection

Vmin	Volts	Vmax	I _{max}	Code
14.3	15.0	15.8	71	1.5KE15A
22.8	24.0	25.2	45	1.5KE24A
171	180	189	6.1	1.5KE180A
190	200	210	5	1.5KE200A



MICROSEMI UNI-DIRECTIONAL 5KW

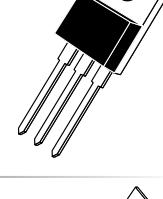
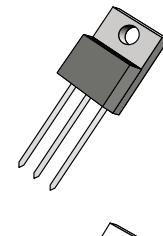
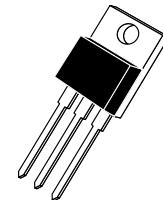
Peak Power 5000 Watts @ 10ms
Power dissipation 5.0 Watts
Maximum Clamp Voltage @ Peak Pulse Current
Low Leakage < 10µA
Response Time is Typically < 1 ns

Vmin	Volts	Vmax	I _{max}	Code
40.0	36	44.2	86	5KP36A

Triacs

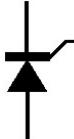
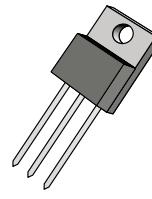
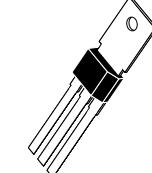
GENERAL PURPOSE TRIACS

Current	Voltage	Code
4A	600V	BT136-600
4A	800V	BT136-800
8A	600V	BT137-600
8A	800V	BT137-800E
12A	800V	BT138-800
12A	800V	BT138-800E
16A	800V	BT139-800
16A	800V	BT139-800E
12A	500V	BT151-500R
12A	650V	BT151-650R
12A	800V	BT151-800R
10A	600V	BTA10-600C
10A	700V	BTA10-700C
12A	400V	BTA12-400C
16A	600V	BTA16-600B
16A	600V	BTA16-600C
16A	800V	BTA16-800B
40A	600V	BTA40-600B
40A	700V	BTA40-700B
40A	800V	BTA40-800B
4A	600V	BTB04-600
6A	400V	BTB06-400
6A	600V	BTB06-600
8A	400V	BTB08-400
8A	600V	BTB08-600B
10A	400V	BTB10-400
12A	400V	BTB12-400
12A	600V	BTB12-600
12A	700V	BTB12-700
16A	400V	BTB16-400
16A	600V	BTB16-600B



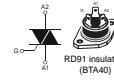
THYRISTORS, TRIACS and SCRs

Description	Code
TRIAC 600V 5A	AC05DGM
TRIAC	AC03E
TRIAC	AC08DGM
TRIAC 600V 1A	BCR1AM-12
TRIAC 400V 3A	BCR3AM-8
TRIAC 600V 3A	BCR3AM-12
TRIAC 600V 5A	BCR5AM-12
TRIAC 600V 6A	BCR6AM-12L
TRIAC 600V 8A	BCR8PM-12L
THYRISTOR 500V 5A	BT100
TRIAC 600V 8A	BTA08-600C
THYRISTOR 30V 1A	BR203
400V 0.8A	BRY55-400
Discontinued use 15-80H	BSTCC0146H
Discontinued use 15-85R	BSTCC0146R
TRIAC 400V 0.8A	MAC97A6
SCR 200V 2A	SF2D41
SG264 THYRISTOR	SG264
SG613 THYRISTOR	SG613
SCR 200V 6.4A	2SF248
THYRISTOR 400V 2A	C106D
THYRISTOR 600V 2A	C106M
THYRISTOR 400V 3A	3P4MH
THYRISTOR 400V 5A	5P4M
THYRISTOR 600V 5A	5P6M
THYRISTOR	15-80H
THYRISTOR	15-85R
TRIAC 6A 400V	SC141D



TRIAC TO3

Current	Voltage	Code
40A	700V	BTA40-700B
40A	600V	BTA40-600B
40A	800V	BTA40-800B



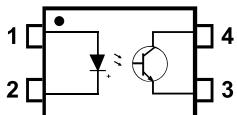


□ Optocouplers

PHOTO-OPTOCOUPLER 4 PIN

Suit PC817, PS2501, 2561, TLP421, 521, 621, SFH610, 611, 615, SFH618, 628 H11A817, and more.

Code
K1010

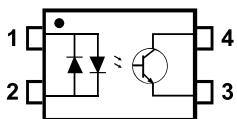


If . . . 50mA
Viso . . . 5KV
Vceo . . . 60Vrms
CTR . . . 50%
Ir . . . 2mA
Tr . . . 5µs
4.6x6.5mm

PHOTO-OPTOCOUPLER 4 PIN AC

Suit PC814, PS2505, 2565, TLP620, 626, SFH620, LTV814, H11AA814, and more.

Code
K3010

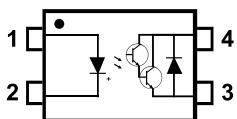


If . . . 60mA
Viso . . . 5KV
Vceo . . . 60Vrms
CTR . . . 60%
Ir . . . 1mA
Tr . . . 5µs
4.6x6.5mm

PHOTO-OPTOCOUPLER 4 PIN B

Suit PC852, PS2532, TLP523, TLP627, SFH619, and more.

Code
K4010

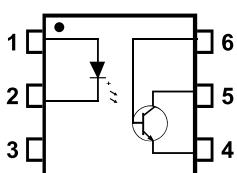


If . . . 50mA
Viso . . . 5KV
Vceo 300Vrms
CTR . . . 600%
Ir . . . 1mA
Tr . . . 60µs
4.6x6.5mm

PHOTO-OPTOCOUPLER 6 PIN

PC4N35, PS2601
4N35, 36, 37, 38,
TLP331, 531, 631,
SFH600, 601, 608,
MCT2, 5210, 5211,
H11A1, and more.

Code
4N35

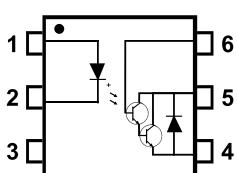


If . . . 50mA
Viso . . . 5KV
Vceo . . . 60Vrms
CTR . . . 60%
Ir . . . 2mA
Tr . . . 5µs
8.5x6.5mm

PHOTO-OPTOCOUPLER 6 PIN B

Suit PC852, TLP371, IL66-4, H11B1, MOC119, 8020, and more.

Code
K5010

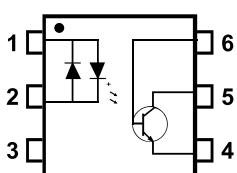


If . . . 50mA
Viso . . . 5KV
Vceo 300Vrms
CTR . . . 600%
Ir . . . 1mA
Tr . . . 60µs
8.5x6.5mm

PHOTO-OPTOCOUPLER 6 PIN AC

PC733, PS2605
TLP330, 630,
H11AA1, 2, 3, 4,
IL250, 251 IL252, 255,
and more.

Code
K6010



If . . . 50mA
Viso . . . 5KV
Vceo . . . 60Vrms
CTR . . . 60%
Ir . . . 1mA
Tr . . . 5µs
8.5x6.5mm

PHOTO-OPTOCOUPERS - VISHAY OEM

Isolation V	O/P Device.	I/TX%	BV CEO	Code
500	Transistor	100	30	4N35
1775	Transistor	20	30	4N25
1060	Transistor	20	30	4N26
350	Transistor	10	30	4N28
500	Transistor	100	30	4N36
1770	Transistor-H.V	10	80	4N38A
500	Transistor	500	30	4N33

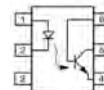
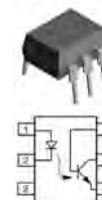


PHOTO-OPTOCOUPERS - PANASONIC OEM

Original replacements.

Equiv.	Code
Panasonic	ON3105
CNC1S101	ON3131
CNC1S171	ON3171



PHOTO-OPTOCOUPERS - SHARP OEM

Code
PC111S
PC113
PC120
PC123
PC714
PC813
PC814
PC816
PC817



PC121FY substitute to PC123.

PHOTO-OPTOCOUPLER 40A 250VAC

Coil	3-32Vdc 12mA
Type	SPST
Vmax	250Vrms
Amax	40Arms
Size	45x58x16mm
Code	KSD240AC8

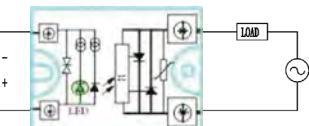
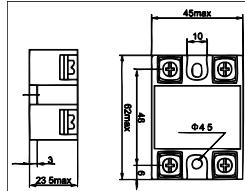


PHOTO-OPTOCOUPLER 40A 480VAC

Single pole single throw solid state switch.
Trigger input 3 to 30V DC with LED indicator.

Coil	3-32Vdc 12mA
Type	SPST
Voltage	90-480V AC
Amax	40Arms
Size	62x45x24mm
Code	SSR-40



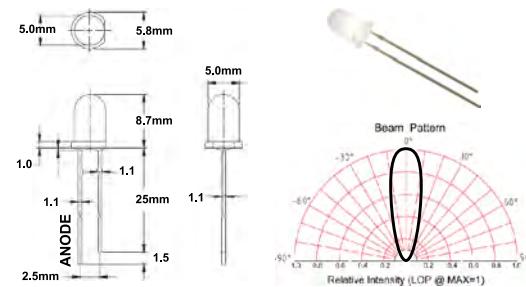


Electronic Components

□ LEDs

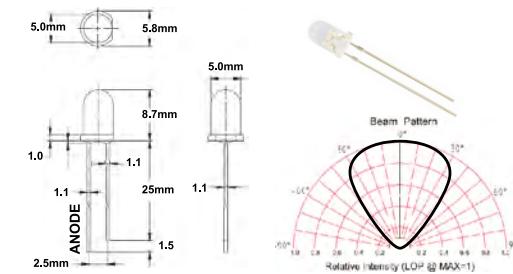
5mm NARROW BEAM LEDs 10-15 Degrees

Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 4500	LED524RD
Red	1.9 - 2.5	6000 - 8000	LED568RD
Red	1.9 - 2.5	8000 - 11000	LED581RD
Orange	1.9 - 2.5	2000 - 4500	LED524OR
Yellow	1.9 - 2.5	2000 - 4500	LED524YL
Yellow	1.9 - 2.5	6000 - 8000	LED568YL
Yellow	1.9 - 2.5	8000 - 11000	LED581YL
Sea Green	2.9 - 3.5	8000 - 11000	LED581BG
Green	2.9 - 3.5	8000 - 11000	LED581GN
Blue	2.9 - 3.5	2000 - 4500	LED524BU
Blue	2.9 - 3.5	6000 - 8000	LED568BU
Blue	2.9 - 3.5	6000 - 9000	LED569BU
White	2.9 - 3.5	4000 - 7000	LED547WH
White Warm	2.9 - 3.5	6000 - 9000	LED569WWH
Cool White	2.9 - 3.5	9000 - 13000	LED593WH
White	2.9 - 3.5	8000 - 11000	LED581WH
White	2.9 - 3.5	10000 - 12000	LED51012WH
White	2.9 - 3.5	15000 - 18000	LED51518WH
White	2.9 - 3.5	16000 - 21000	LED51621WH



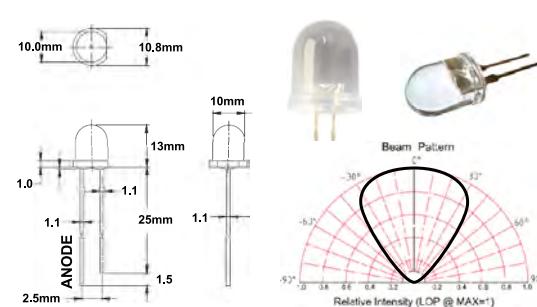
5mm WIDE BEAM LEDs 40-50 Degrees

Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 3000	LED523RD
Yellow	1.9 - 2.5	2000 - 3000	LED523YL
Orange	1.9 - 2.5	1000 - 2000	LED512OR
Amber	1.9 - 2.5	1000 - 2000	LED512AMB
Green	2.9 - 3.5	4000 - 5000	LED545GN
Blue	2.9 - 3.5	2000 - 3000	LED523BU
White	2.9 - 3.5	2000 - 3000	LED523WH
White	2.9 - 3.5	5000 - 7000	LED557WH



10mm LARGE LED 30-40 Degrees

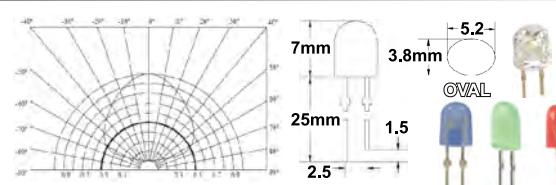
Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 4500	LED1024RD
Red	1.9 - 2.5	8000 - 11000	LED1081RD
Orange	1.9 - 2.5	2000 - 4500	LED1024OR
Yellow	1.9 - 2.5	2000 - 4500	LED1024YL
Yellow	1.9 - 2.5	8000 - 11000	LED1081YL
Green	1.9 - 2.5	500 - 2500	LED1002GN
Green	2.9 - 3.5	6000 - 9000	LED1069GN
Blue	2.9 - 3.5	2000 - 4500	LED1024BU
Blue	2.9 - 3.5	6000 - 9000	LED1069BU
White	2.9 - 3.5	4000 - 7000	LED1047WH
White	2.9 - 3.5	8000 - 11000	LED1081WH



5x3mm OVAL LED 110-120 Degrees

OVAL TYPE 3.8x5.2mm

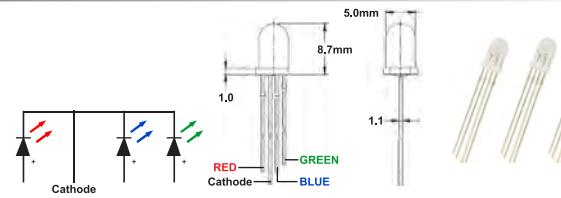
Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.2	400 - 500	LED50VRD
Green	3 - 3.6	2000 - 2400	LED50VGN
Blue	3 - 3.6	500 - 700	LED50VBU
White	3 - 3.6	2000 - 2500	LED50VWH



5mm RGB LED 40-50 Degrees TRI-COLOUR LED

RED, GREEN, BLUE

Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5 (R)	2000 - 4500 (R)	LED5RGB9
Green	2.9 - 3.5 (G)	4000 - 7000 (G)	
Blue	2.9 - 3.5 (B)	4000 - 7000 (B)	



LED ULTRA-BRIGHT 5mm - 5 VOLT

NARROW BEAM 15°-30°

Colour	Voltage	Luminance (mcd)	Code
Cool White	5V	60000	LED5V-CW
Warm White	5V	24000	LED5V-WW
Blue	5V	11000	LED5V-BU
Green	5V	45000	LED5V-GN
Yellow	5V	8000	LED5V-YL
Red	5V	5000	LED5V-RD



LED ULTRA-BRIGHT 5mm - 12 VOLT

NARROW BEAM 15°-30°

Colour	Voltage	Luminance (mcd)	Code
Cool White	12V	30000	LED12V-CW
Warm White	12V	13000	LED12V-WW
Blue	12V	6500	LED12V-BU
Green	12V	30000	LED12V-GN
Yellow	12V	4000	LED12V-YL
Red	12V	2600	LED12V-RD





□ LEDs and Photo-Optics

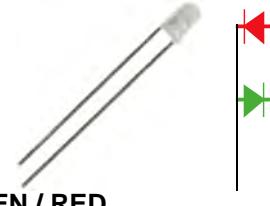
2mm TIP LED

Colour	Code
RED	LED2R
GREEN	LED2G



3mm GREEN / RED LED

Code
LED3GR



CHROMIUM BEZEL 12V

5mm LED with resistor.
Suit 8mm diam' hole.
Chrome 10mm diam.

Colour	Code
Blue	PL6BU
Red	PL6R
Green	PL6GN
Yellow	PL6YL
Empty	MTG5CHRM



3mm LED

Colour	Code
RED	LED3R
GREEN	LED3G
YELLOW	LED3Y



3mm BRIGHT LED

Colour	Description	Code
RED	850 mCd	LED3BR
GREEN	500 mCd	LED3BG
YELLOW	500 mCd	LED3BY

Diffused Bezel



3mm GREEN / RED

(Both=Yellow)
Code LED3GRY



CHROMIUM BEZEL - NO LED 5mm

Chromium bezel supplied WITHOUT an LED.
Compatible with most common 5mm LEDs.
Panel mounting hole is 8mmØ. Concave bezel.

Code
MTG5CHRM



4mm LED

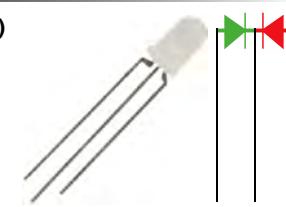
Colour	Code
GREEN	LED4G
YELLOW	LED4Y

Diffused Bezel



5mm GREEN / RED

(Both=Yellow)
Code LED5GRY



CHROMIUM BEZEL - NO LED 5mm

Chromium bezel supplied WITHOUT an LED.
Compatible with most common 5mm LEDs.
Panel mounting hole is 8mmØ. Convex bevel.

Code
BCH5



5mm LED

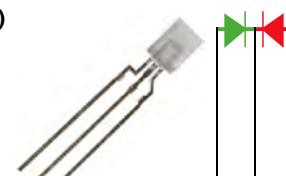
Colour	Code
RED	LED5R
GREEN	LED5G
YELLOW	LED5Y

Diffused Bezel



2x5mm GREEN / RED

(Both=Yellow)
Code LED25GRY



CHROMIUM BEZEL - NO LED 3mm

Chromium bezel supplied WITHOUT an LED.
Compatible with most common 3mm LEDs.
Panel mounting hole is 6mmØ. Convex bevel.

Code
BCH3



5mm SUPER BRIGHT

Colour	Description	Code
RED	350 mCd	LED5BR
RED	850 mCd	LED5SBR
RED	1800 mCd	LED5UBR
GREEN	200 mCd	LED5BG
YELLOW	660 mCd	LED5BY
YELLOW	900 mCd	LED5SBY

8mm YELLOW LED

Colour	Code
Yellow	LED8Y



5mm 2Hz FLASHING DIODE

2-15Vdc

Colour	Code
Green	LED5GF
Red	LED5RF



FLASHING LED 3-5VDC

ULTRA BRIGHT 5MM FLUSH MOUNT

Colour	Code
Red	MGF5RDF



2x5mm LED

Colour	Code
RED	LED25R
GREEN	LED25G
YELLOW	LED25Y



TOSLINK PCB S/PDIF

FIBRE OPTIC TRANSMITTING MODULE

Toshiba OEM
Suit Fibre Optic
Cable HiFi.
Transmit Only.



LED PANEL MOUNT CLIP

Suit 5mm LED's.

6.2mm bezel with locking washer for a more secure hold of the LED to the panel assembly (2.8mm max thick).

Code
MTG5





Electronic Components

Photo Sensors

IR RECEIVER DIODE PN323

Receiver	940nm (IR)
FOV	65°
Equiv.	PH310
Code	PN323



IR SENSOR

Original	RHPX0176GEZZ,
Part No	RHPX0053GEZZ
Size	3mm
Code	PX0176



IR INTERRUPT SENSOR

Original	RHPX0252GEZZ
Part No	
Code	PX0252



IR RECEIVER DIODE PN313

Receiver	900nm (IR)
FOV	70°
Equiv.	PH302
Code	PN313



PHOTO TRANSISTOR

Size	3mm
Code	PN268-R



IR INTERRUPT SENSOR

PCB Stand-off	12mm.
LED & Photo-transistor.	
Code	PS5705



IR Emitter Diode

Common in remote controls etc.
5mm LED 5V 130mA λp 930nm

Code	CQY89
------	-------



IR PHOTO TRANSISTOR 5MM

Infra-Red, etc.
Vce Max 5V
Dark 100µA Light 20mA

Size	5mm	5mm
Colour	Clear	Dark
Code	IRR53C	IRR53D



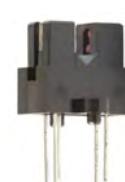
IR TRANSISTOR

Size	3mm
Code	PN202S-R



IR INTERRUPT SENSOR

Description	Small
Size	4mm Gap
Code	PU60271



IR PHOTO TRANSISTOR 3MM

Infra-Red, etc.
Vce Max 5V
Dark 100µA Light 20mA

Size	3mm	Colour	Code
3mm	Clear	IRR34C	
3mm	Dark	IRR34D	



IR REFLECTIVE SENSOR

Original	RH-PX0042
Part No	
Size	4mmØ
Code	PX0042



IR INTERRUPT SENSOR

Original	RHPX0238GEZZ
Part No	
Size	3mm Gap
Code	PX0238



IR DIODE

Size	4.5mm
Code	LN58



BI-DIRECTIONAL IR DIODE

Original	RH-PX0039GEZZ
Part No	
Size	4.5mm
Code	PX0039



IR REFLECTIVE SENSOR

Size	6.5x6.5x4.8mm
Code	PS6002A



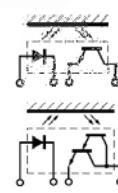
IR INTERRUPT SENSOR

Description	Very Small
Size	3mm Gap
Code	PU60629



Original	RH-PX0169GEZZ,
Part No	RH-PX0180GEZZ
Code	PX0180 NLA

Equiv.	CNB1302	CNB2301
Type	Transistor	Darlington
Size	2.6x3.3mm	
Code	ON2170	ON2270



IR INTERRUPT SENSOR

JVC & Sharp. Two diodes and photo-transistors for hall effect positioning.

Size	4mm Gap
Code	PU55827





□ Tools & Service Aids

PRESS-TO-RESEAL PLASTIC BAGS

Clear plastic with write-on label. Resealable lip. Order One To Receive A Bag Of One Hundred.

250x140mm Large

Pack of **Code**
100 PB2514

170x100mm Medium

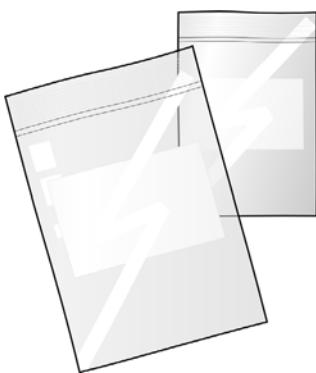
Pack of **Code**
100 PB1710

120x80mm Small

Pack of **Code**
100 PB128

120x80mm Anti-Static

Pack of **Code**
100 ASB128



FARADAY ANTI-STATIC BAGS

STATIC SHIELDING - STATIC DISSIPATIVE - 100 BAGS PER PACK

Industry standard tinted static bags. Metalised and 40% transparent. Heat sealable. Non-tear polycarbonate. Creates a Faraday cage envelope to protect contents from static fields. Order one to receive a bag of 100.

Size	Pack of	Code
100x150mm	100	ASB46
150x200mm	100	ASB68
200x300mm	100	ASB812
250x350mm	100	ASB1014
300x400mm	100	ASB1216
375x450mm	100	ASB1518



SOLDERING TOOLS

Contains 6 double sided tools designed to carry out repairs professionally & quickly. Suitable for surface mount applications.

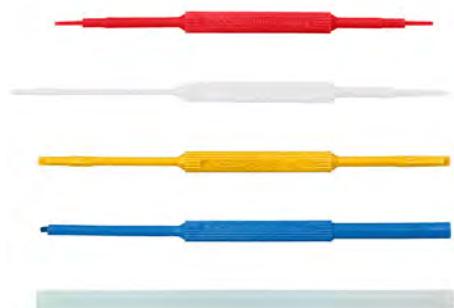
Code
SA10



5 PIECE ALIGNMENT TOOL KIT

Driver for adjusting the ferrite core and pre-set knobs. Made with polyacetal for high insulation and wear resistance. Made in Japan.

Code
HT2016



PLCC IC EXTRACTOR

For those delicate ICs with pins on all sides. This extractor first hooks under the diagonal corners then pulls upward evenly, removing the package without damage.

Code
CY850



ICs NOT INCLUDED

IC EXTRACTOR TOOL

PROFESSIONAL TOOL FOR EXTRACTING IC

The simple to use IC extractor features a thumbwheel that allows you to maintain the extractor's grip firmly on the IC. Extract IC in one single operation.

Code
HT609D



IC TOOL SET ESD

Consists of three insertion tools and one extraction tool for static free handling of sensitive IC's.

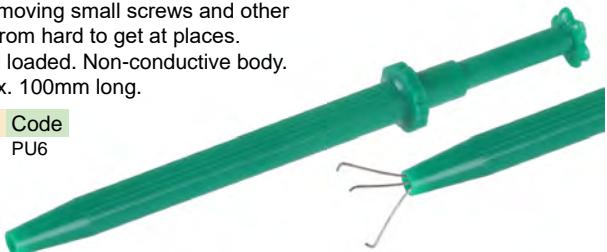
Code
ICT4



PEARL CATCHER PARTS PICKER

For removing small screws and other parts from hard to get at places. Spring loaded. Non-conductive body. Approx. 100mm long.

Type **Code**
Plastic PU6



PLATINUM THERMAL GREASE

NON-SILICONE PASTE

- Low thermal resistance and high conductivity for superior heat transfer ($0.018 \text{ }^{\circ}\text{C}\cdot\text{in}^2 / \text{W}$).
- High stability and reliability.
- Apply to CPU, VGA, Chipset and other PC components.
- Compliance with RoHS requirements.

Size **Code**
2ml / 3.0g HTC03



SILICONE HEAT COMPOUND

Heat Transfer Compound

General Purpose

Size **Code**
5ml / 10g SIL10
75ml / 150g SIL150



NON-SILICON HEAT COMPOUND

Easy, no mess application.

Supplied in syringes

Size **Code**
35ml / 70g HTC35SL



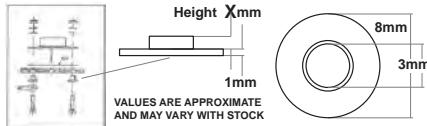
Electronic Components

□ Hardware

INSULATOR WASHERS M3

Heat resistant plastics. Suit most transistor and IC mountings. Outer lip dimensions may differ slightly from stock.

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN



1.5mm WASHER

Pack of Code
10 YC13



MICA WASHER

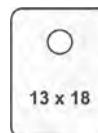
Heat resistant washers for transistor and IC placement. Don't forget the Silicone heat compound. Its important! Outer dimensions may differ slightly on stock.

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

Pack of Code
10 YC18



Pack of Code
10 YC16

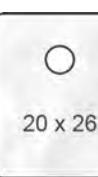


2.0mm WASHER

Pack of Code
10 YC31

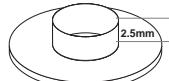


Pack of Code
10 YC35



2.5mm WASHER

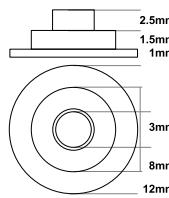
Pack of Code
10 YC10



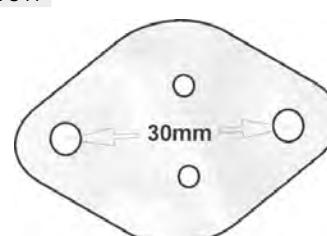
Pack of Code
10 YC41

STEPPED WASHER

Pack of Code
10 YC12



Pack of Code
10 YC23



MOUNTING HARDWARE M3

Miscellaneous Nuts & Bolts suitable for heat sink applications.

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

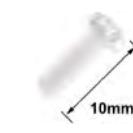
METAL SCREW

Pack of Code
10 YC81



POLY SCREW

Pack of Code
10 YC80



METAL NUT

Pack of Code
10 YC85



SPRING WASHER

Pack of Code
10 YC84



TAGGED WASHER

Pack of Code
10 YC86



POLY NUT - SOLD IN SINGLES

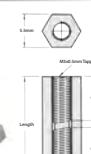
Pack of Code
one M3-NYNUT



M3 NYLON SPACER

M3 THREADED THROUGH

Length	Code
6mm	M3-6HP
9mm	M3-9HP
12.7mm	M3-12HP
20mm	M3-20HP



M3 THREADED BOLT AND SOCKET

Length	Thread	Code
6mm	4mm	M3-6TP
9mm	6mm	M3-9TP
18mm	6mm	M3-18TP
22mm	6mm	M3-22TP



SILICONE WASHER

High thermal conductivity

0.3mm Grey 210°C 4KV

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

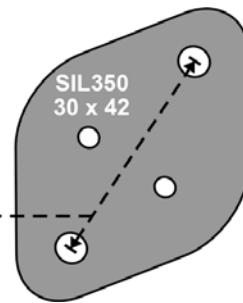
Pack of Code
10 SIL160



Pack of Code
10 SIL410



Pack of Code
10 SIL350



SILICON HEAT SHEET 10cm²

Cut to size. 100x100x0.3mm

Code SIL100

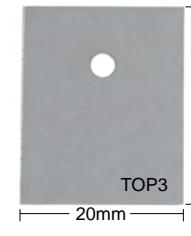
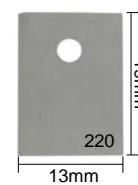
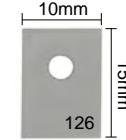


SILICONE WASHER - ADHESIVE

ORDER ONE TO RECEIVE A PACK OF TEN

New adhesive silicon washers now available simplifying installation. 10 pieces per pack.

Pack of	Size	Suits	Code
10	10x15mm	TO126	ASIL-126
10	13x19mm	TO220	ASIL-220
10	20x26mm	TO3	ASIL-TOP3





□ Hardware

TRANSISTOR CLAMP

ORDER ONE TO RECEIVE A PACK OF TEN

Clamps a single flat-pack device to a heatsink. Mounting hole 3.2mm.

Type	Size	Pack of	Code
TO-220	26mm	10	CLP-8417



10°

HEATSINK MICRO-U

To suit TO-126 or TO-220 flat packs.

Thermal resistance: 28°C/W.



Type	Size	Code
TO-220, TO-126	10x19x19mm	HSK1910
TO-126		



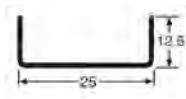
HEATSINK MICRO-U PCB

PCB MOUNT

Use with TO-220 package transistors. Features base tabs for PCB location.

Thermal resistance: 19°C/W.

Type	Size	Code
TO-220, TO-126	25x12x30mm	HSK2530
TO-126		



HEATSINK MICRO-U PCB

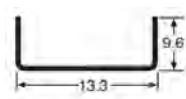
PCB MOUNT

Single PCB pin

Overall length = 19mm

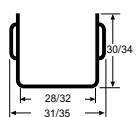
Thermal Res: 24°C/W

Type	Size	Code
TO-220	13x10x19mm	HSK1396



HEATSINK U UNIVERSAL

Universal holes suit most transistors.



Size	K	Code
28-31x34x61mm	6°C/W	HSK3128
32-35x30x25mm	10°C/W	HSK3532

HEATSINK - COMPUTER CPU

INTEGRATED FANS

Compact and highly efficient
Usually includes a 12V fan

Large range of Fans also available

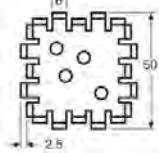
See section 04 Data & Computer
Search for "Fans CPU"



HEATSINK TO-3

Thermal resistance: 5°C/W

Drilled to suit TO-3 case.



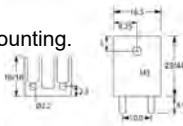
Type	Size	Code
TO-3	50x50x25mm	HSK5025

HEATSINK FINS TO-220

PCB MOUNT

Includes PCB Pins for PCB Mounting.

M3 mounting hole for TO-220



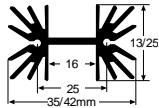
Size	K	Code
10x22x17mm	30°C/W	HSK2210
10x44x17mm	15°C/W	HSK-4410
16x22x17mm	19°C/W	HSK2216
16x44x17mm	8.5°C/W	HSK-4416

HEATSINK FINS TOP-3

PCB MOUNT

Suitable for flat packs up to TOP-3 size. Vertical mount.

Includes 2 PCB pins



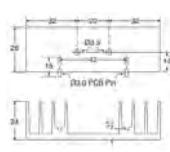
Size	K	Code
25x13x35mm	17°C/W	HSK-2516
50x13x35mm	8.5°C/W	HSK-5016
38x25x35mm	7.5°C/W	HSK-3816

HEATSINK FIN 1U

PCB PINS

1U Height.

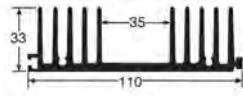
Two transistor mounting holes.



Size	K	Code
24x28x84mm	5°C/W	HSK2884

HEATSINK HEAVY-DUTY

Tongue and grooved ends enabling 'ganging' of heatsinks together.



Size	K	Code
72x110x33mm	2.2°C/W	HSK3372

HEATSINK - COMPUTER CPU

INTEGRATED FANS

Compact and highly efficient
Usually includes a 12V fan

Large range of Fans also available

See section 04 Data & Computer
Search for "Fans CPU"





Electronic Components

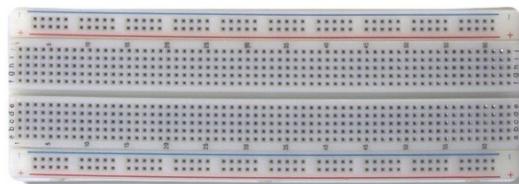
□ PCB & Breadboards

PROTOTYPE BREADBOARD KIT

WITH WIRE KIT

Solderless terminal stripboard with standard spacing for designing & experimenting with electronic circuits, etc. Horizontal strips for power and vertical for IC & component insertion. Includes pre-cut jumper lead kit in an easy storage container. 2.54mm spacing. 630+20 terminal holes. 55x165mm. Adhesive back.

Code
U21J

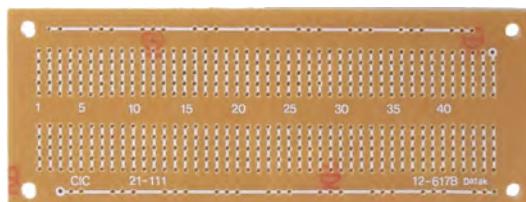


PROTOTYPE PCB BREADBOARD TYPE

VERTICAL STRIPS AND HORIZONTAL RAILS

High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. Modelled on the common prototype breadboard design for easy transferring of your design. All use 0.9mm drilled, 2.54mm spacing (10th").

Size Code
130x47mm PCB111

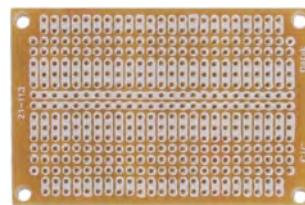


UNIVERSAL PROTOTYPE PCB MINI BREADBOARD

COMPACT IC DEVELOPMENT

High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. All use 0.9mm drilled, 2.54mm spacing (10th").

Size Code
72x47mm PCB113

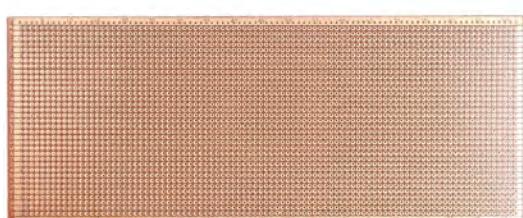


UNIVERSAL PROTOTYPE PCB BOARDS

SOLDER POINTS - NO TRACKS

This prototype board has no tracks as such, just solder points around each and every hole. All use 0.9mm drilled, 2.54mm spacing (10th"). High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc.

Size Code
244x99mm PCB120

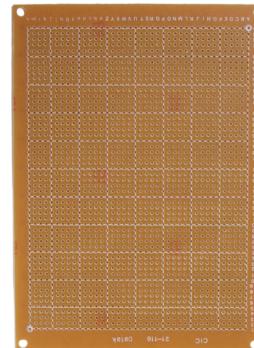


UNIVERSAL PROTOTYPE PCB MATRIX TYPE

SOLDER POINTS - NO TRACKS

This prototype board has no tracks as such, just solder points around each and every hole. All use 0.9mm drilled, 2.54mm spacing (10th"). High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc.

Size Code
160x115mm PCB116

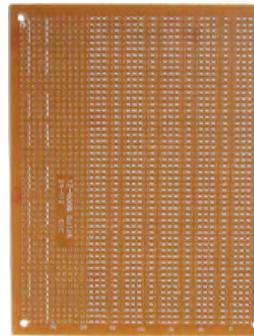


UNIVERSAL PROTOTYPE PCB DIP PACKAGE TYPE

SOLDER POINTS & TRACKS

Tracks split into groups of four, two and one. Ideal for IC placing. High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. All use 0.9mm drilled, 2.54mm spacing (10th").

Size Code
140x110mm PCB112

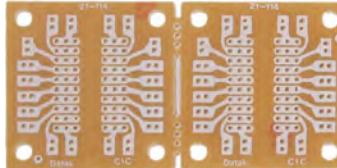


UNIVERSAL PROTOTYPE PCB SINGLE DIP TYPE

20 PIN IC / COMPONENT BREAKOUT

High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. All use 0.9mm drilled, 2.54mm spacing (10th").

Size Code
45x45mm x2 PCB114

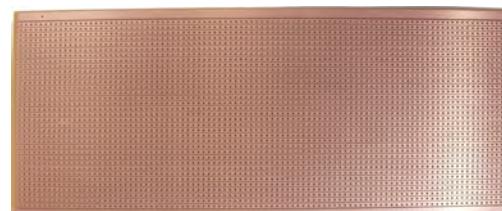
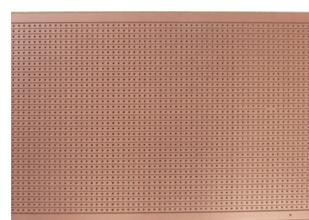


UNIVERSAL PROTOTYPE PCB STRIPBOARDS

FULL LENGTH TRACKS

High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. All use 0.9mm drilled, 2.54mm spacing (10th").

Size Code
250x100mm PCB119
160x100mm PCB118

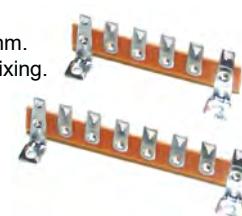


TAG STRIPS - DIY SOLDER

SOLDER TERMINALS

Fibreglass with 5mm solder tags spaced 5mm. For making your own small circuits. Screw fixing.

Tags	Length	Code
6	60mm	TAG6
8	80mm	TAG8
10	100mm	TAG10





Valve Audio Tubes Output Tubes Tube Amp Doctor

TUBE AMP DOCTOR - GERMAN



TAD is a German company that specialises in Tube quality control and matching. Tubes are soak tested, evaluated and then matched. Each tube has its Specifications Labeled. For more information, please visit our website or www.tubeampdoctor.com



5881 WXT - TAD

DEPENDABLE 6L6GC TYPE TUBE WITH MORE MODERN AND AGGRESSIVE CHARACTER

Code Matched
RT311 each
RT312 Pair
RT314 Quad
RT316 Sextet
RT318 Octet



6L6WGC-STR - TAD

GE-STYLE BLACK-PLATE, EXCELLENT TONE AND MAXIMUM LIFETIME

Code Matched
RT811 each
RT812 Pair
RT814 Quad
RT818 Octet



Some tubes have Datasheets Available. See downloads for each tube online...

6L6GCM-STR - TAD

SILKY HIGHS, DEFINED, DEEP BASS AND LOTS OF HEADROOM, LIVELY CLEAN SOUNDS

Code Matched
RT101 each
RT102 Pair
RT104 Quad
RT106 Sextet
RT108 Octet



6SL7GT NOS - TAD

BALANCED TWIN-TRIODE NEW-OLD-STOCK RUSSIAN

Code
RT-6SL7



6SN7GT - TAD

SILKY CLEAR TOP END RICH MID-RANGE

Code
RT980



6V6GT-CZ - TUBE AMP DOCTOR

HIGH PERFORMANCE AUDIO BEAM POWER PENTODE

Matched Code
each RT431
Pair RT432
Quad RT434



6V6GT-STR - TAD

SWEET FULL-BODIED TONE WITH SILKY HIGHS AKA: 7408, 6V6GY

Code Matched
RT831 each
RT832 Pair
RT834 Quad



6V6GTB-STR - TAD

SWEET FULL-BODIED TONE WITH SILKY HIGHS GT BLACK PREMIUM

Code Matched
RT231 each
RT232 Pair
RT234 Quad



KT66 - TAD

OUT OF THE BOX OLD SCHOOL TONE

Code Matched
RT821 each
RT822 Pair
RT824 Quad



EL34 STR REDBASE - TAD

PROVIDES CLASSIC EL34 SOUND - EXCELLENT TONE AND MAXIMUM LIFETIME

Code Matched
RT121 each
RT122 Pair
RT124 Quad
RT126 Sextet
RT128 Octet



E34L-CZ - TAD

PUNCHY MIDS AND WELL-FOCUSED BASS POWER

Code Matched
RT151 each
RT152 Pair
RT154 Quad



EL84-CZ - TAD

BIG TONE, VERY DYNAMIC AND EXTRA POWERFUL BASS RESPONSE

Code Matched
RT271 each
RT272 Pair
RT274 Quad



EL84M - TAD

STRONG MIDS AND DEFINED BASS RESPONSE, RELIABLE AND LONG LASTING

Code Matched
RT371 each
RT372 Pair
RT374 Quad
RT376 Sextet
RT378 Octet



KT88-STR - TAD

WONDERFUL TONE & GREAT APPEARANCE SUITABLE FOR HIGH-END AUDIO & BASS GUITAR AMPS

Code Matched
RT891 each
RT892 Pair
RT894 Quad
RT896 Sextet
RT898 Octet





Electronic Components

□ Preamp Tubes - Tube Amp Doctor

TUBE AMP DOCTOR SELECTED

- All preamp tubes Premium Selected have passed the following tests:
- Low Noise Test
- Microphonic Test
- Gain Test
- Sonic Tests
- Shock Tests
- Listening Tests
- Balanced Output Test
- Matched Spec. Test



5751 SELECTED - TAD

LOW-NOISE TUBE FOR BEST CLEAN, SMOOTH AND TRUE VINTAGE TONE

Code
RT009



5751 HIGH GRADE - TAD

PREMIUM TOP QUALITY WITH LOWEST NOISE, CLEAN TONE WITH BIG BOTTOM, WARM MIDRANGE AND SILKY TOP END

Code
RT090



7025/E83CC HIGH GRADE - TAD

NO MICROPHONY, NO HUM - CLEAN WARM TONE, PUNCHY MIDS, FAT OVERDRIVE

Code
RT030



7025 HIGH GRADE - TAD

WARM, CLEAN TONE WITH CREAMY OVERDRIVE

Code
RT010



TUBE AMP DOCTOR CATALOGUE



12DW7/7247 DISSIMILAR SELECT

TWIN: ONE AS 12AX7 OTHER 12AU7

Code
RT044



12BH7A - TAD

PREMIUM SELECT BALANCED

Rugged build for guitar amps. Suitable replacement for 12BH7A-STR

Code
RT046



12BH7A-STR - TAD

BALANCED SELECTED NOS RCA BLACK PLATE OUTSTANDING TONAL QUALITY

Code
RT043



12AT7-CZ ECC81 TAD

PREMIUM BALANCED IDEAL FOR THE USE AS BALANCED PHASE DRIVER

Code
RT052



12AT7WC-USA NOS - TAD

PREMIUM BALANCED

The Original US-made mil. Grade JAN Version in TAD Premium NOS. Selection quality.

Code
RT004



ECC803S SELECTED - TAD

TREMENDOUS RICHNESS AND OVERTONES, GREAT DETAILS, IDEAL CHOICE FOR HI FI

Code
RT033



12AY7/6072A SELECTED - TAD

GREAT CHOICE AS AN INPUT TUBE IN ANY TWEED, CLASSIC LOW GAIN OR NON-MASTER AMPLIFIER

Code
RT007



ECC83-CZ - TAD

DELIVERS BIG AND WARM SOUNDS, MELLOW TOP-END AND EMPHASISES PUNCHY MIDS

Code
RT003



12AY7/6072A HIGH GRADE - TAD

TRUE AND WARM TONE WITH DEFINED PUNCH IN LOWER MIDS, PERFECT CHOICE FOR 1ST STAGE OF ANY HIGH GAIN AMPLIFIER

Code
RT070



ECC83-WB - TAD

PREMIUM SELECTED LOW NOISE AND LOW MICROPHONY HIGH PERFORMANCE

Code
RT093



12AU7A/ECC82 BALANCED - TAD

SYMMETRICAL GAIN IS IDEAL FOR STEREO AUDIO APPLICATIONS AND BALANCED DRIVERS

Code
RT005



EF86/6267 SELECTED - TAD

LOW-NOISE AND LOW MICROPHONICS AND IS USED IN MANY (EUROPEAN) HI-FI PREAMPS

Code
RT-EF86



Some tubes have Datasheets Available. See downloads for each tube online...



□ Rectifier Tubes - Tube Amp Doctor

5U4G-SV - TAD

PREMIUM SELECTED BIG BULB RECTIFIER

Compatible with 5U4GB, 5Z3P, 5Z3PAT, 5Z3P-J, 5C3S rectifier tubes.
Socket Octal. 5V 3A.
2x500V ~230mA.

Code
RT502



5U4GB - TAD

STRAIGHT GLASS ENVELOPE TUBE WITH SLOW START FEATURE

Code
RT504



EZ81/6CA4 - TAD

COMPACT SIZE FOR USE IN SMALLER AMPS

Code
RT506



GZ34/5AR4-STR - TAD

SUITABLE FOR GUITAR AMPS

Code
RT501



5Y3GT - TAD

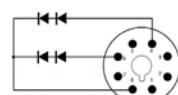
COMPACT RECTIFIER TUBE

Code
RT503



SOLID-STATE RECTIFIER - TAD

Solid-state rectifier, replaces 5U4G/GB, GZ34, 5AR4 and 5Y3 rectifier tubes.



Code
RT515



Beware that tube rectifiers usually drop tens of volts, so changing to diodes can effect circuit performance

□ Capacitors - Tube Amp Doctor

AXIAL ELECTROLYTIC AUDIO CAPS - TAD

PREMIUM QUALITY, IMPROVES TONE WITH FINEST DETAILS AND EXCELLENT OVERTONE, MADE IN GERMANY



Value	Volts	Size	Code
20uF	550V	49x25mmØ	V-20550AL
70uF	350V	49x25mmØ	V-70350AL
220uF	350V	50x30mmØ	V-220350AL



THREE PIN AUDIO CAP MADE IN GERMANY



Value	Volts	Size	Code
25+25uF	25V	38x25mmØ	V-25-2525AL

RADIAL ELECTROLYTIC GOLD CAPS - TAD

TAD Gold Caps in radial "can" shape are especially made for those British amps. Aluminium electrolytic capacitor with cathode case. LCR style construction with solder terminals. Optional mounting clamp is also available, see below...



Value	Volts	Size	Code
32uF	500V	60x25mmØ	V-32500R
47uF	500V	50x30mmØ	V-47500R
220uF	350V	60x35mmØ	V-220350R
32+16uF	500V	52x35mmØ	V-1632500R
32+32uF	500V	50x35mmØ	V-3232500R
50+50uF	500V	75x35mmØ	V-5050500R
100+100uF	500V	80x35mmØ	V-100100500R

OPTIONAL MOUNTING CLAMP TO SUIT RADIAL CAPS

Capacitor mounting clamp to suit radial capacitors.

Diam.	Code
25mm	V-R125
30mm	V-R130
35mm	V-R135
40mm	V-R140



AXIAL BIPOLAR ELECTROLYTIC GOLD CAPS - TAD

BI-POLAR VOLTAGE AXIAL GOLD-CAPS IMPROVED OVER-TONES & SONICS AUDIO HIGH TEMPERATURE ENDURANCE

Value	Volts	Size	Code
25uF	25V	19x10mmØ	V-2525BP
250uF	25V	27x16mmØ	V-25025BP



AXIAL ELECTROLYTIC GOLD CAPS - TAD

HIGH TEMPERATURE ENDURANCE

TAD Gold Caps in axial shape provide the entire range of electrolytic capacitors which are used in all kind of tube amps. These caps feature high temperature endurance (85°C or 105°C).

Value	Volts	Size	Temp.	Code
5uF	50V	13x5mmØ	105°C	V-550
8uF	475V	25x13mmØ	105°C	V-8475
16uF	475V	30x12mmØ	105°C	V-16475
22uF	500V	32x16mmØ	105°C	V-22500
25uF	25V	13x6.5mmØ	85°C	V-2525
33uF	500V	40x18mmØ	105°C	V-33500
47uF	500V	40x22mmØ	105°C	V-47500
50uF	100V	20x8mmØ	105°C	V-50100
70uF	350V	40x18mmØ	105°C	V-70350
80uF	100V	20x10mmØ	85°C	V-80100
80uF	450V	50x26mmØ	85°C	V-80450
100uF	350V	40x22mmØ	85°C	V-100350
100uF	500V	50x25mmØ	85°C	V-100500
220uF	350V	50x25mmØ	105°C	V-220350



THREE PIN POWER SUPPLY CAPS

Value	Volts	Size	Temp.	Code
15+15uF	450V	40x25mmØ	85°C	V-15-15450
33+33uF	450V	50x25mmØ	85°C	V-33-33450





Electronic Components

□ Testing Equipment - Tube Amp Doctor

SILENCER™ POWER ATTENUATOR 8 OHM - TUBE AMP DOCTOR

CONVERTS EXCESS POWER INTO HEAT WITHOUT IMPACT ON SOUND QUALITY

The TAD Silencer™ connects between the amps speaker output and the speakers and gives you total control over what part of the power output will be feed to your speakers. Crank up the amp to the setting were it sounds best and adjust the final volume just for your speakers with the Silencer. All components which are responsible for great guitar tone are still working "cranked up" to your favourite set-up (preamp tubes, driver stage, output tubes, transformers etc.) and deliver great tone. The final volume you hear is adjusted AFTER the amp's output. The power attenuation can be set in convenient 2db steps from FULL power to 16db. From 16db on you can fine adjust to total silence.

Code
RS-8-FTBL



RANGEKING™ POWER BOOSTER - TAD

The RangeKing™ power booster is connected between your guitar and amp. When it is switched on, it boosts the signal into the amp. Gain can be adjusted with the "GAIN" control to overdrive any amp. Use the BALLS control to adjust bass response to any desired level and to keep it controllable and tight. Switched "OFF" (hardwire bypass!) you can create a great big clean tone. Switched "ON" you can achieve a punchy, raw crunch and natural overdrive tone from your amp. The RangeKing™ itself does not influence the tone of your signal; on the contrary, it forces your amp to give you a natural overdrive distortion and excellent tone.

Code
RK



F.A.N.T.A. SPEAKER EMULATOR - TAD

The F. A. N. T. A. (Frequency Adapted Natural Tone Accessory) Speaker Emulation is a low impedance, balanced, symmetric, transformer coupled output. Just connect it to the speaker output of your amp; it does not require any power supply or battery. The F.A.N.T.A. has a 3-pin XLR-Connector for a standard microphone cable in order to connect it to a mixing console or a recording system.

Code
SE



CLASS-A CONVERTERS - TUBE AMP DOCTOR

SOLD IN PAIRS

The tone of a Class-A operated guitar amp is well known for its lively tone and enhanced responsiveness, enriching the overall musicality! It instantly improves sustain, and adds to a three dimensional character with soft compression and smooth harmonic distortion when pushed. The overall loudness will be reduced as the Class A as the EL84 tubes provide less output volume. So you can crank your amp all the way up and achieve the best possible sonic results at a reasonable volume level. Available in PEN-Tone or TRI-Tone version. Both versions basically provide the same benefits. The PEN-Tone supports the main tonal character of your amp while the TRI-Tone will clearly make it more linear but will compress and saturate much earlier. The TRI-Tone makes it sound much smoother and will drop down power output of to about 8 watts when using 2 TAD CLASS-A CONVERTER. The overall power output for PEN-Tone: 14 -18 Watt per pair. The overall power output for TRI-Tone: 8 -10 Watt per pair.

Type	QTY	Code
Pen-Tone	Pair	TB-PH/2
Tri-Tone	Pair	TB-TH/2



BIASMASTER SYSTEM TESTER - TUBE AMP DOCTOR

The BiasMaster™ allows you to monitor the bias current safely and easily. It lets you to set and evaluate all reasonable biasing range your amp and tubes offers to find and set your personal perfect choice. The Bias setting has a dramatic impact on the amps response, break-up and dynamic character. Measures BIAS current of any 6L6GC, 6550, EL34, 6V6GT, 5881, KT66, KT88, KT90, KT100, KT120, 7027A etc. in your amp. Available with meter and 2 octal adaptors (BMA2) or 4 octal adaptors(BMA4).

Connector	Code
2-Adaptor	BM2
4-Adaptor	BM4

OPTIONAL BIASMASTER SYSTEM TEST ADAPTOR FOR EL84 TUBES

Noval probes (one pair) for use with BiasMaster System.
Enables measurements on EL84, 6BQ5 etc. tubes.

Code
BMA2-EL84





□ Reverb Tanks - Tube Amp Doctor

REVERB TANK 425MM 2X2 SPRINGS – TUBE AMP DOCTOR

STANDARD REVERB - FOUR SPRINGS

TAD Reverb Tank is designed for deep and smooth reverb, no fluttering but wide frequency response with airy top end instantly inspiring to enjoy guitar playing. The rock solid mechanical design assures a very dependable and consistent quality performance exceeding any expectation. The Type 4 provides the signature sound that helped making the Fender Reverb Amps famous since the early 1960s. It uses four counter wound and coupled springs delivering superior mechanical performance.

Outer channel dimensions: 425x111x33mm.



Time	Size	Input	Output	Mount	OEM	Code
2.75 - 4.0 sec	425x111x33mm	8Ω	2250Ω	Horizontal	4AB3C1B	RV-4AB3C1B
1.75 - 3.0 sec	425x111x33mm	150Ω	2250Ω	Horizontal	4BB2A1B	RV-4BB2A1B
2.75 - 4.0 sec	425x111x33mm	150Ω	2250Ω	Horizontal	4BB3C1B	RV-4BB3C1B
2.75 - 4.0 sec	425x111x33mm	250Ω	2250Ω	Horizontal	4DB3C1B	RV-4DB3C1B
1.75 - 3.0 sec	425x111x33mm	600Ω	2250Ω	Horizontal	4EB2C1B	RV-4EB2C1B
2.75 - 4.0 sec	425x111x33mm	600Ω	2250Ω	Horizontal	4EB3C1B	RV-4EB3C1B
2.75 - 4.0 sec	425x111x33mm	1475Ω	2250Ω	Horizontal	4FB3D1B	RV-4FB3D1B

REVERB TANK 235MM 3 SPRINGS – TUBE AMP DOCTOR

COMPACT REVERB - TRIPLE SPRINGS

TAD Reverb Tank is designed for deep and smooth reverb, no fluttering but wide frequency response with airy top end instantly inspiring to enjoy guitar playing. The rock solid mechanical design assures a very dependable and consistent quality performance exceeding any expectation. The Type 8 is typically used with small sized amplifiers in which a superb reverb quality is important. This three spring reverb approaches the rich textural quality of the larger reverb units it is the perfect choice for smaller sized guitar amplifiers.

Outer channel dimensions: 235x86x33mm.



Time	Size	Input	Output	Mount	OEM	Code
1.75 - 3.0 sec	235x86x33mm	10Ω	2575Ω	Horizontal	8AB2A1B	RV-8AB2A1B
1.75 - 3.0 sec	235x86x33mm	10Ω	2575Ω	Horizontal	8AB2D1A	RV-8AB2D1A
1.75 - 3.0 sec	235x86x33mm	10Ω	2575Ω	Horizontal	8AB2D1B	RV-8AB2D1B
2.75 - 4.0 sec	235x86x33mm	10Ω	2575Ω	Horizontal	8AB3C1B	RV-8AB3C1B
1.75 - 3.0 sec	235x86x33mm	190Ω	2575Ω	Horizontal	8BB2C1A	RV-8BB2C1A
2.75 - 4.0 sec	235x86x33mm	190Ω	2575Ω	Horizontal	8BB3C1B	RV-8BB3C1B
2.75 - 4.0 sec	235x86x33mm	240Ω	2575Ω	Vertical	8CB3C1C	RV-8CB3C1C
1.75 - 3.0 sec	235x86x33mm	310Ω	2575Ω	Horizontal	8DB2C1B	RV-8DB2C1B
1.75 - 3.0 sec	235x86x33mm	800Ω	2575Ω	Horizontal	8EB2C1B	RV-8EB2C1B
1.75 - 3.0 sec	235x86x33mm	1925Ω	2575Ω	Horizontal	8FB2A1B	RV-8FB2A1B

REVERB TANK 425MM 3X2 SPRINGS – TUBE AMP DOCTOR

DELUXE REVERB - SIX SPRINGS

TAD Reverb Tank is designed for deep and smooth reverb, no fluttering but wide frequency response with airy top end instantly inspiring to enjoy guitar playing. The rock solid mechanical design assures a very dependable and consistent quality performance exceeding any expectation. The Type 9 is the top of the line model. Six springs, counter wound, coupled and placed in parallel it provides the fullest and richest reverb effect. An upgrade when a fuller reverb effect is desired. Ideally suited for clean sound guitar amplification. .

Outer channel dimensions: 425x111x33mm.



Time	Size	Input	Output	Mount	OEM	Code
1.2 - 2.0 sec	425x111x33mm	10Ω	~2250Ω	Horizontal	9AB1C1B	RV-9AB1C1B
1.75 - 3.0 sec	425x111x33mm	10Ω	~2575Ω	Horizontal	9AB2A1B	RV-9AB2A1B
1.75 - 3.0 sec	425x111x33mm	10Ω	~2250Ω	Horizontal	9GB2C1B	RV-9GB2C1B
1.75 - 3.0 sec	425x111x33mm	200Ω	~2575Ω	Horizontal	RV-9FB2D1B	RV-9FB2D1B

let your amp sing!

with genuine

R Tube Amp Doctor
Reverb Cans





Electronic Components

□ Output Tubes

300B ELECTRO-HARMONIX GOLD-GRID PAIR

TWO PREMIUM MATCHED TUBES

New Audiophile Premium Mastered. Ceramic base. Gold plated grid for increased bias stability as well as top of the line sonics and performance.

Code Matched
300B-EH-PL Pair

electro-harmonix



KT88 ELECTRO-HARMONIX

ELECTRO-HARMONIX BEST KT88

A new geometry is utilised to reduce odd order harmonics for a sweet top end while the peak power is extended to improve low frequency response. A new glass formula body ensures long life and improved reliability. The perfect choice when the authentic sound is needed.

Code
KT88EH

EH



KT88-SV-PL SVETLANA MATCHED

PLATINUM MATCHED PAIR

Reminiscent to Genalex KT88 Gold Lion. Gold-plated molybdenum alloy grid and carbon-coated screen grid for power. This KT88 also substitutes most 6550's! It provides a more pronounced bass and is a much more solid tube.

Code Matched
KT88SVPL Pair

Svetlana



6550-EH ELECTRO-HARMONIX MATCHED PAIR

PLATINUM MATCHED PAIR

The 6550EH offers excellent linearity, power handling capacity, heat dissipation. Four-pillar construction and mica spacers maintain a rugged mechanical reliability. Classic tone is sustained at a prolonged, high output. New leaded glass compound is utilized to maintain vacuum integrity

Code Matched
6550EHPL Pair

EH



6550-WE SOVTEK MATCHED PAIR

PLATINUM MATCHED PAIR

This valve has been engineered for the discerning audiophile or musician. Receiving rave reviews for its superior tone and sonics. Sold only in matched pairs. The "Platinum" matching service is done in factory and consists of 24Hr tube burn in! Exceptional.

Code Matched
6550WE Pair

SOVTEK



2A3 SOVTEK

Sovtek 2A3 is one of the best values in direct heated triodes today. Compares very favorably to NOS 2A3 tubes in performance and sonics.

MATCHED PAIR

Code Matched
2A3SOVPL Pair



SINGLE TUBE

Code Matched
2A3 Each

SOVTEK

KT90 ELECTRO-HARMONIX MATCHED PAIR

PLATINUM MATCHED PAIR KT88 UPGRADE

The Electro Harmonix KT90-EH tube is a direct replacement for any KT88 or 6550 tube. It has extended specifications for improved performance and longevity over a standard KT88.

Code Matched
KT90EH Pair

EH



KT120 TUNG-SOL MATCHED PAIR

PLATINUM MATCHED PAIR

The KT120 is a beam pentode power amplifier with a 60W plate dissipation rating enabling designs for up to 200W push-pull output. Can substitute in existing 6550/ KT88/KT90 circuits, impervious to overload, extremely reliable, long life, super-powerful tube. Seated 113x52mmØ

Code Matched
KT120-PR Pair



6550C-SV-PL SVETLANA MATCHED PAIR

PLATINUM MATCHED PAIR

Consistent, solid and reliable. The construction of gold-plated molybdenum alloy grid, carbon-coated screen grid makes it one of the best current production 6550 on the market. Audio Research uses them, as does Marshall. Lots of power and plenty of headroom

Code Matched
6550CSVPL Pair

Svetlana



6550 TUNGSOL MATCHED

This top quality re-issue tube has triple getters for a smooth extended high end, slightly warm midrange with great imaging, and a tight bottom end.

Code Matched
6550-TUN Pair
QD-6550-TUN Quad

TUNG-SOL
ELECTRON TUBE





EL34 ELECTRO-HARMONIX

ELECTRO-HARMONIX PENTODE

"Very close sonics to a Mullard"
Extremely musical with sound that is rich, smooth, highly detailed without being edgy. Sweet mids, deep bass, extended highs. Overall, a well balanced valve.
Electrically eq. big-bottle 6CA7

Code Matched
EL34EH each
EL34EHPL pair



EL34 / 6CA7 - EH BIG BOTTLE

6CA7 SUBSTITUTES EL34'S

Designed to exacting specifications of a Philips 6CA7, this classic pentode retains a high detail tone with military reliability as a direct EL34 replacement with higher headroom, etc. Larger bottle tube.

Code
6CA7EH



E34L JJ BRAND

This tube has all the tonal qualities of the JJ EL34 but it has an extended low end response and is a little punchier and more aggressive.

E34L VERSION FROM JJ

Code
E34L-JJ

EL34 ORIGINAL FROM JJ

Code
EL34-JJ

Made In Slovak Republic



EF86 ELECTRO-HARMONIX

6267 MINIATURE PENTODE

High quality low-distortion high-gain audio preamplifier. Low microphonics and low heater hum induction - suitable for input stages in high-gain microphone preamps, phono preamps or as a gain stage in condenser microphones. Electrostatic shield is built-in. Low distortion in pentode or triode connection.

Base Code
B9A* EF86EH



PLATINUM MATCHED PAIRS & 24HR BURN-IN



electro-harmonix

A new and improved range of tubes have arrived from Russia and claim to rival NOS and better the classics of old with advanced materials and technology to make these new release valves the best in the world.
www.ehx.com
www.jj-electronic.com
www.tungsol.com

EL34 MULLARD MATCHED

PLATINUM MATCHED PAIR/QUADS

New Sensor's re-issue of the famous Mullard EL34 has been considerably smoothed. The overall sound is more balanced and very warm. This is great news for people with something like a Marshall since they are inherently midrangey. The low mids are nicely balanced to prevent any boomy tone.

Code Matched
EL34-MUL Pair
QD-EL34MUL Quad



EL34B TUNG-SOL MATCHED

GUITAR AMP POWER PENTODE

A higher impedance EL34 tube design with increased touch responsiveness and a unique clipping characteristic.

SINGLE

Code
EL34B-TUN-1 each

MATCHED

Code Matched
EL34B-TUN Pair
QD-EL34B-TUN Quad



EL34-SV-PL SVETLANA MATCHED

PLATINUM MATCHED PAIR/QUADS

Smooth midrange sound with plenty of headroom. Gold-plated molybdenum alloy grid and carbon-coated screen grid makes it one of the best current production matched pair EL34's on the market. It's a sturdy tube that can handle heavy use, excellent replacement for Marshall amplifiers, etc.

Code Matched
EL34SVPL Pair
QDEL34SVPL Quad



7591A ELECTRO-HARMONIX

AMPEG OWNERS REJOICE

The once extinct 7591 tube is now available again. The Electro Harmonix 7591A tube is smooth, yet punchy, with a sweet harmonix finish. Large bottle 90mm high. Octal base. 19W. 450V

Base Code
Octal 7591A





Electronic Components

6L6-EH CLASSIC ELECTRO-HARMONIX

COPY OF THE RCA BLACKPLATE

Super updated version of the 6L6.
Modelled on "RCA Blackplate" classic.
Improved grid/plate for high power.
Mica spacers & metal springs for no
more rattling microphonics.
eq.* 5881 6BG6 6L6GC/GT

Code	Matched
6L6EH	Each
6L6EHPL	Pair



6L6-WGC / 5881 SOVTEK

POPULAR MARSHALL REPLACEMENT

Most reliable 6L6 available. Extremely
constant production. Popular in
Marshall's and others Rigid Mil. Spec.
output tube 6.3V@0.88A 250Vx73mA
Plate. Popular for its choice in tone
Warm round tone that "sweetens"

Code	Matched
5881SOV	each



5881-WXT SOVTEK

POPULAR MARSHAL UPGRADE

Extremely consistent and reliable work-horse
power beam tetrode. Built to rigid military
standards, the 5881WXT will tolerate
higher voltages than most other 6L6 types.
Frequently used as replacement for old
7027s in vintage Amps.

Code	Matched
5881WXT	Each
5881WXT-PR	Pair



6V6-GT ELECTRO-HARMONIX

Beam power tetrode with a specially
developed cathode coating, careful
alignment of the grid, tri-alloy plate
material for flawless performance
up to 475 volts. Perfect for high
plate voltage amplifiers like the
Fender Deluxe Reverb. Very
popular & reliable replacement tube
eq.* 8571, 6AY5, 6P6C, any 6L6,
7184, CV509/510/511.

Code	Matched
6V6GT	



6SL7 SOVTEK

The Sovtek 6SL7 is a very capable
replacement for any 6SL7 tube. Good
reliability from Sovtek High-MU twin-triode
as used in coupling circuits / phase, etc.

Code	Matched
6SL7	



6L6-GC-SV-PL SVETLANA MATCHED

PLATINUM MATCHED PAIR/QUAD

GOLD-Plated molybdenum alloy grid
and Carbon coated screen grid makes
this one of the best, most reliable,
efficient, and classic sounding 6L6s
Very deep and rich sounding classic.

Code	Matched
6L6GCSVPL	Pair
QD6L6GCSVPL	Quad



6L6-GC-STR TUNG-SOL MATCHED

New production built to withstand
higher plate voltages and deliver
smooth overdrive and a very
musical tone. Rugged and reliable
power tube for use in the most
demanding guitar amplifier circuits.

Code	Matched
6L6STR	Pair
QD-6L6STR	Quad



6L6-WXT+ SOVTEK

Sovtek Higher Power, 20% higher
output than even their 5881-WXT.
Mica spacers and metal springs.
No rattle microphonics, etc. Superior
overall tone tube. Suit guitarists or
HiFi. Excellent upgrade reliability.
eq.* 5881 6BG6 6L6GC/GT KT66

Code	Matched
6L6WXT	



6SN7-GT SOVTEK

TWIN TRIODE PRE-AMP

Premium quality Sovtek GT version.
eg. Suit driver for 6L6's, etc.
eq.* CV181, 1986, 1988, 278,
ECC32, E1606, VT231, 12SN7.

Code	Matched
6SN7	



6SN7-EH ELECTRO-HARMONIX

The 6SN7EH is a beautiful sounding tube, on
par with RCA's red base 5692. It maintains a
linear response while being able to accept a full
voltage. Vintage amp users and audiophiles will
be thrilled to find that a superior quality, ultra
low noise replacement finally exists.

Code	Matched
6SN7EH	





6A2 6BE6

7 Pin Audio Heptode Pentagrid.
Chinese replacement for 6BE6.

Base Code
B7G 6A2



Stock is limited and
brand may change.

6AU6

SINGLE WIDEBAND PENTODE

Sharp-Cutoff Wideband Amplifier.
Suit AF, IF & RF Frequencies up to 50MHz.
USA General Electric JAN-6AU6WC
B7G Miniature 53x18mmØ
Equiv. CV2524, CV8403, EF94, 6J4, 6P2

Base Code
B7G 6AU6WC



Stock is limited and Brand may change.



6BY7 EF85

High-slope vari-mu RF pentode.
May also replace 6F16, 6F26,
W719, CV1375, EF805S

Base Code
B9A 6BY7



Stock is limited and
brand may change.

6BL8 6LN8 ECF80

NOS - TRIODE + PENTODE

Replaces 6BL8 or ECF80, 6LN8 tube types.
As used in some amplifiers like the Playmaster
116/7 with the sharp cutoff pentode as gain
following the volume control and the small signal
medium-mu triode as a split-load phase inverter.

Base Code
B9A 6BL8

Stock is limited and Brand may change.



6BM8 ECL82 ELECTRO-HARMONIX

7W TRIODE + PENTODE

The high-Mu triode section is similar to a 12AX7
and the pentode section is similar to a 6V6. Both
tubes in one bottle allows for compact amplifiers.

Base Code
B9A 6BM8EH



Manufactured in Russia, early 2000's



6BQ5 EL84 SOVTEK

O/P PENTODE AF 10W

10W HiFi AF amp. Popular Sovtek tube As
used in Fender, Crate, Peavey and VOX
AC30 (Beetles).

Base Code
B9A 6BQ5



6BQ5 / EL84 ELECTRO-HARMONIX

DELUXE EL84EH - 6BQ5 PENTODE

Extremely musical with a sound that is rich,
smooth, detailed without being edgy. Beautiful! It
is the perfect EL84 for any vintage equipment &
a sure way to improve the performance of even
modern audiophile systems.

Base Code
B9A EL84EH
B9A EL84EHPL



6DJ8 6922 ELECTRO-HARMONIX GOLD

Premium version Electro-Harmonix Longer life
better performance Subs 6DJ8 E88 ECC88

Base Code
B9A 6922EH

GOLD PIN

Base Code
B9A 6922EHG





Electronic Components

□ Preamp Tubes

6F2 TRIODE & PENTODE

Genuine Chinese Shanghai 6F2
Pentode / Triode tube for audio.

Base Code
B9A 6F2



6GW8 TRIODE & PENTODE

6GW8 / ECL86 triode+pentode
for audio.

Base Code
B9A 6GW8



6H30 Pi SOVTEK

Refined Super linear, military spec.
Mid MU dual triode preamp / driver.
Sovtek now supply this special OEM tube.
Suit "Supertube" Balanced Audio Technology.
As used in the B.A.T. VK-50SE pre-amplifiers.
Will replace 6H30, 6N30, 6N30P only.
NOT a direct sub for 6922 ECC88 6DJ8

Base Code
B9A 6H30P



6JW8 / PCF802 ELEKTRONSKA Si NIŠ

TRIODE-PENTODE NOS TUBE

Substitute for McIntosh MR-67, MX110
and other tuners and preamps that
accept 6JW8, 6U8, ECF82 or 6GH8A.
Manufactured in Yugoslavia
Elektronska Ei Niš

Base Code
B9A PCF802



6U1 TRIODE & HEPTODE

Genuine Chinese Shanghai 6U1
Triode/Heptode tube for audio:
*May be similar to ECH81 and
6AJ8, ID46546
As used in our Accento-Dynamica
ADHA90BT

Base Code
B9A 6U1



MORE TUBES AVAILABLE - TUBE AMP DOCTOR

See Page 10-41 for more Tubes

Testing service located in Germany
offering premium tubes individually
tested, selected and matched.

Values recorded on each box:
Transconductance (TC)
Plate Current (PC)



12AT7 ELECTRO-HARMONIX

The very dynamic and deep low end
response of the long plate EH tube makes
it an excellent choice in reverb driver and
phase inverter stages. However, use in high
gain preamp stages is not recommended
due to potential microphonics.

Base Code
B9A 12AT7EH



12AU7A ELECTRO-HARMONIX

Low microphonics and excellent linearity
offer a musical and harmonic soundstage.
Copy of GE 6189, equivalent to the
European ECC82 tube and can be used in
any 12AU7 or ECC82 circuit.

Base Code
B9A 12AU7EH



12AX7 SOVTEK

Special Low Noise Edition "...very linear,
large full sound stage, very musically
detailed...". Classic large plate Mullard
design. Excellent HiFi replacement/upgrade

Base Code
B9A 12AX7LPS



12AX7 ELECTRO-HARMONIX

High gain, ultra low noise, Spiral filament for
no hum. Short plate structure with improved
materials result in no microphonics make
them ideal for guitar amps, etc. Excellent
replacement, nice balanced sounding tube.

Base Code
B9A 12AX7EH



12AX7 SVETLANA

New Xpo-Pul Reflector made tube. Solid
construction build quality. Not the older "C"
type but a new Upgraded to a far better
version. Low noise, no microphonics, very
clear and open without being too bright.

Base Code
B9A 12AX7SVET



12AX7 TUNG-SOL

Re-issue upgrade with higher gain, headroom
and drive, less noise, less microphonics, not
as harsh as a GT or too bright.

Base Code
B9A 12AX7-TUN



Made in Russia

12AX7 MULLARD

The Re-issue Mullard adds virtually no
tone colouring and is smoother sounding
with very flat response. Ideal home audio.

Base Code
B9A 12AX7-MUL



Made In Russia



□ Rectifier Tubes

RECTIFIER VALVES

5AR4 Sovtek 550-0-550V max

Base Code
Octal 5AR4



5U4-GB Electro-Harmonix

Audio quality Full Wave Rectifier 450-0-450V
*5AS4, 5U4, CV575, VT244, VU71

Base Code
Octal 5U4GB



5Y3-GT Sovtek

An indirectly heated diode.
Suitable for Audio quality 350-0-350VRms.
140mA Max. 5V @ 2.0A Filament

Base Code
Octal 5Y3GT



6CA4 Electro-Harmonix

Full Wave Rectifier Valve CV3996
CV5072 EZ81 U709 Vh=6.3V
Ih=1mA Ir=150mA 350-0-350 RMS

Base Code
B9A 6CA4



6H2 Peking

Double diode, indirectly heated.

Base Code
B7G 6H2



□ Guitar Reverb Tanks

REVERB TANK 235MM MEDIUM TRIPLE

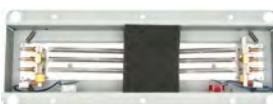
TRIPLE REVERB SPRING - MEDIUM DECAY TIME

Small in size, this three spring reverb approaches the rich textural quality.
Genuine Accutronics/Belton brand. RCA sockets in/out. No locking device.

Time	1.75 - 3.0 sec	1.75 - 3.0 sec
Size	235x85x35mm	235x85x35mm
Input	800Ω	310Ω
Output	2575Ω	2575Ω
Mount	Horizontal	Vertical
OEM	8EB2C1B	8DB2C1D
Code	RV8EB	RV8DB2

See Page 10-45 for
more Reverb Tanks
from Tube Amp Doctor

Horizontal Mounting plane is Open Side Down



Vertical Mounting plane is RCA Side Down

Horizontal Mounting plane is Open Side Down



Horizontal Mounting plane is Open Side Down



Vertical Mounting plane is RCA Side Down

REVERB TANK 425MM LONG DOUBLE

TWIN-REVERB REPLACEMENT DOUBLE SPRING LONG DECAY TIME

Four counter wound and coupled springs deliver superior mechanical performance and the classic sound that helped to make the Twin Reverb Amps famous. No locking device.

Time	2.75 - 4.0 sec
Size	425x105x35mm
Input	8Ω
Output	2250Ω
Mount	Horizontal
OEM	4AB3C1B
Code	RV4AB

See Page 10-45 for
more Reverb Tanks
from Tube Amp Doctor

REVERB TANK 435MM LONG TRIPLE

DELUXE REVERB REPLACEMENT TRIPLE SPRING LONG DECAY

Six counter wound springs, coupled and placed in parallel. Unique combination to enhance sound quality. Experience a richest reverb effect throughout the full range of musical sound.

Time	2.75 - 4.0 sec	2.75 - 4.0 sec
Size	425x105x35mm	425x105x35mm
Input	10Ω	10Ω
Output	2575Ω	2575Ω
Mount	Horizontal	Vertical
OEM	9AB2C1B	9AB2C1D
Code	RV9AB	RV9AB2C1D

See Page 10-45 for
more Reverb Tanks
from Tube Amp Doctor

□ Regulator Tubes

WY-3PJ REGULATOR TUBE

OC3 CV686 Va=105V 40mA

Chinese made high quality valve amplifier voltage regulators tube. It controls & stabilises the voltage for the triode to 105 volts DC or if wired in series to twice that amount (210Vdc).

Code
WY-3PJ





Electronic Components

□ Valve Sockets

TUBE BASE "B7G" - WITH SHIELD

7-pin socket for 6C4, 6AU6, etc., ceramic base with steel pins and removable shield.

Base Code
B7G VS715



TUBE BASE "B9A" - PCB MOUNT

9 pin valve socket with ceramic base to PCB solder pins.

Base Code
B9A VS901



TUBE BASE "B9A" - WITH SHIELD

9 pin valve socket B9A ceramic base to solder TAGs Shield cap 40-50mm tall tubes With spring loading to hold Valves secure for transport. Ideal guitar amp solution.
Genuine Fender part OEM

Base Code
B9A VS915



TUBE BASE "OCTAL" - PCB MOUNT

8 pin valve socket with ceramic base to PCB solder pins. KT88, 6550, 6L6, and others...standard Octal.

Base Code
Octal VS801



TUBE BASE "OCTAL" - CHASSIS MOUNT

Ceramic Heat Resistant 8x Tinned to solder TAGs Screw base to Chassis 25mmØ +Bracket 40mm

Base Code
Octal VS803
Octal VS802



TUBE BASE "OCTAL" - CHASSIS MOUNT

DELUXE OVER-SIZED

8 pin "Octal" Base Ceramic heat resistant Dual piece contacts to solder TAGs.

PREMIUM 40x56mm

Base Code
Octal VS812



□ Valve Clamp

VALVE RETAINERS

Spring loaded retainer Excellent solution for guitar amplifiers, etc. Ensures a firm contact so large valves don't shift. "C" is a minimum height. (+%50max.)

A"	B"	C"	Code
35	22	75mm	VRET20
42	22	80mm	VRET10
45	22	90mm	VRET30



□ Guitar Capacitors

PPL - "ORANGE DROPS" POLY CAPS 600VAC

"Orange Drops" is the nickname for Spragues classic valve type film caps due to their colour and shape. The all new 715 polypropylene film capacitors build on this reputation. Suitable for any Guitar and HiFi valve amplifier restoration. The 715's are popular because they work well and have a nice clean smooth tone compared to the muddy sounding and unstable old hollo-wax paper caps originally used.

Value	Code
.001µF	.001PPL600
.0015µF	.0015PPL600
.0022µF	.0022PPL600
.0033µF	.0033PPL600
.0047µF	.0047PPL600
.01µF	.01PPL600
.015µF	.015PPL600
.022µF	.022PPL600
.047µF	.047PPL600
.068µF	.068PPL600
.1µF	.1PPL600
.15µF	.15PPL600
.22µF	.22PPL600
.47µF	.47PPL400



ATM - "ATOM" AXIAL ELECTROLYTICS

Sprague Type TVA Atom Aluminium Tubular Axial Electrolytics. These sturdy, axial lead, aluminium electrolytic capacitors are preferred by most craftsmen for authentic vintage restorations. Many of the best sounding classic guitar amps by Fender, Ampeg, Magnatone, Valco and many others used Sprague Atom electrolytics.

Value	Volts	Code
8µF	150V	8ATM150
8µF	450V	8ATM450
10µF	150V	10ATM150
10µF	500V	10ATM500
16µF	475V	16ATM475
20µF	500V	20ATM500
20µF	600V	20ATM600
25µF	25V	25ATM25
25µF	50V	25ATM50
30µF	500V	30ATM500
40µF	500V	40ATM500
50µF	50V	50ATM50
80µF	450V	80ATM450
100µF	100V	100ATM100
100µF	350V	100ATM350
100µF	450V	100ATM450
250µF	25V	250ATM25



F&T DUAL VALUE RADIAL CAPS

F&T and LCR direct replacement type caps, dual value electrolytic aluminium cans. *100RT450 is an Axial type. Premium quality made in Germany or UK.

Value	Volts	Size	Code
50µF+50µF	250V	40x30mmØ	100C250
225µF+25µF	385V	40x40mmØ	250C385
32µF+32µF	500V	52x35Ø	FT32X32
50µF+50µF	500V	52x35Ø	FT50X50
100µF+100µF	500V	66x35Ø	FT100X100
100µF	450V	50x25mmØ	100RT450



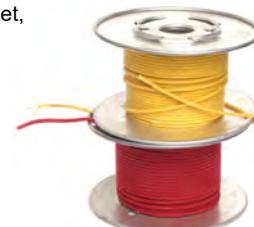
□ Valve Wiring

VINTAGE CLOTH COVERED WIRE

18/22AWG SOLID CORE

High temperature. Double woven cloth jacket, wax coated, with Celanese inner braiding.

AWG	Colour	Length	Code
22AWG	Black	15M	PBW50BK
22AWG	Blue	15M	PBW50BU
22AWG	Brown	15M	PBW50BN
22AWG	Red	15M	PBW50RD
22AWG	White	15M	PBW50WH
22AWG	Yellow	15M	PBW50YL
18AWG	Green	6.0M	PBW20GN





□ Guitar Amp Switches

ROCKER SWITCH

SNAP-IN 250Vac [Light=240Vac Neon]

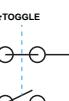
Hole	Light	Current	Type	Code
20x13mm	No	4A	DPST	SW200
20x22mm	No	5A	DPST	SW202
25x25mm	No	10A	DPST	SW203
30x22mm	No	10A	DPDT	SW220
20x13mm	No	6A	SPST	SW210
30x22mm	Red	10A	DPDT	SW225
20x13mm	No	6A	SPDT	SW215
20x13mm	Green	4A	DPST	SW205



TOGGLE SWITCH

DPDT

Code
SWT125



DPST*

Code
SWT123



SPST

Code
SWT121



TOGGLE SWITCH

CENTRE OFF DPDT

Heavy duty toggle Screw terminal x6
Double pole Double throw
Centre OFF Max. 3A 250V

Code
SWT127



SPST CARLING TOGGLE SWITCHES

SPST TOGGLE

Power & standby switches that can
be used as replacement in Fenders®.
250Vac 3A. Fits Ø11.8mm hole.

Code
SWT110



SPST CARLING FOOTSWITCH

SPST FOOTSWITCH

Can be used in Fenders®, etc. reverb/trem/channel
switching pedals. 250Vac 3A. Fits Ø11.8mm hole.

Code
SWT110P



DPDT FOOTSWITCH

Used in many effects and switching units.
250Vac 1A (125Vac 3A). Fits Ø11.8mm hole.

Code
SWP316



FOOT SWITCH

TPDT TOGGLE

Triple pole Kick

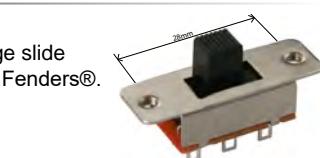
Code
SW3PDT



DPDT TOGGLE

Push-ON / Push-OFF Kick
6A-250Vac

Code
SWP328



STANDARD DPDT SLIDE SWITCH

STANDARD DPDT SLIDE

Standard DPDT (ON-ON) Low voltage slide
switch. Can Replace bright switch in Fenders®.

Code
SW30

□ Valve Transformers

FENDER POWER TRANSFORMER

VIBRO CHAMP XD REPLACEMENT

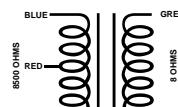
- Designed for drop in replacement of original units.
- Physically, parts were designed to look similar to original factory units (where possible).
- Size: 63x63x32mm

Code
290ABX



FENDER OUTPUT TRANSFORMER

OEM	Fender
Power	25W
Primary	8.5KΩ +CT
Secondary	8Ω
Size	70x60x55mm
Code	NSC041318T

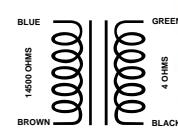


FENDER COUPLING TRANSFORMER

4Ω - 14.5KΩ Fender: 022921

Reverb Driver Transformer
suit most guitar amplifiers
with analogue reverb.
Marshall JCM800-2205/10.
Fender 125A20B

Size
45x35x40mm
Code
NSC022921



Also suitable as 3.5W SE output.

FENDER CHOKE

SUITS FENDER 125CIA

Replacement choke for
Fender®, Boogie®, etc.

OEM	125C1A 022699
Size	49x59x46mm
Current	90mA
DCR	105 ohm
L	4H
Code	NSC125C1A



MARSHALL POWER TRANSFORMER

MARSHALL REPLACEMENT TYPE

Built to original specifications, correct ratios and
lots of iron! Suits the classic JCM800's, etc.

OEM	17D030
Power	50W
Voltage	690V
Current	0.15A
Code	MPT50



MARSHALL 18W POWER TRANSFORMER

Power transformer, replacement for
Marshall guitar amp 18 Watt Combo
Size: 95.3x79.4x92.1mm

Code
290PAZ





Electronic Components

Guitar Plugs and Jacks

1/4" MONO CONNECTOR - SILENT

The "Silent" Plug automatically mutes (shorts) an instrument (guitar) cable by way of a magnetic reed switch to avoid pops and squeals when changing the instrument (guitar) under load.

Type	Code
Mono	NP2X-AU-S



1/4" HEAVY DUTY PLUG - NEUTRIK

Neutrik All Metal

Type	Colour	Code
Mono	Silver	NP2X
Mono	Black	NP2X-B
Mono	Silent*	NP2X-AU-S
Stereo	Silver	NP3X
Stereo	Black	NP3X-B



*NP2X-AU-S is a new "Silent" Guitar Lead Type.
Suitable for line input only.

1/4" MUSICIAN RANGE - AMPHENOL

Colour	Type	Code
Nickel	Mono	ACPM-GN
Black	Mono	ACPM-GB
Nickel	Stereo	ACPS-GN
Black	Stereo	ACPS-GB



1/4" T-SERIES METAL PLUGS - AMPHENOL

Colour	Type	Code
Nickel	Mono	TM2PJ
Black	Mono	TM2PBJ
Nickel	Stereo	TS3PJ
Black	Stereo	TS3PBJ



1/4" RIGHT ANGLE PLUG - OLD SCHOOL

Classic screw back Guitar plug.
Chromium steel.

Type	Code
Mono	P243
Stereo	P244



1/4" RIGHT-ANGLE - AMPHENOL

Type	Colour	Plug	Code
Mono	Nickel	Chrome	ACPM-RN
Mono	Black	Chrome	ACPM-RB
Stereo	Nickel	Chrome	ACPS-RN
Stereo	Black	Chrome	ACPS-RB



1/4" RIGHT ANGLE HEAVY DUTY - NEUTRIK

Neutrik Quality

Type	Code
Mono	NP2RX



MORE PLUGS & SOCKETS SEE PAGE 02-60

1/4" GUITAR LEADS - AMPHENOL

Nickel Barrel / Gold plated Leads

Description	Length	Code
Plug To Plug	1M	GD3030B001
Plug To Plug	3M	GD3030B003
Plug To Plug	6M	GD3030B006
Plug To Plug	9M	GD3030B009



Description	Length	Code
Plug To R/Angle	1M	GD3034B001
Plug To R/Angle	3M	GD3034B003
Plug To R/Angle	6M	GD3034B006
Plug To R/Angle	9M	GD3034B009



MORE PREPARED LEADS SEE PAGE 02-26

1/4" MONO SOCKET VINTAGE SOLDER

Mono input, 4 solder terminals. Switched.
Vintage type with metal ferrule.

Type	Pins	Mounting	Code
Mono	4 Pins	Panel	BJ101



1/4" MONO SOCKET VINTAGE PCB

Mono input jack, 4 PCB mount terminals.
Switched. Vintage type with metal ferrule.

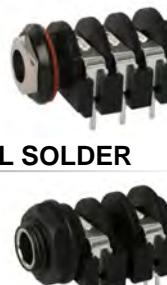
Type	Pins	Mounting	Code
Mono	4 Pins	PCB	BJ121



1/4" STEREO SOCKET VINTAGE PCB

Stereo input jack, 6 PCB mount terminals.
Switched. MXR replacement jack.

Type	Pins	Mounting	Code
Stereo	6 pins	PCB	BJ124



1/4" MONO JACK MODERN MARSHALL SOLDER

Mono input jack, 4 solder terminals.

Type	Pins	Mounting	Code
Mono	4 Pins	Panel	BJ102
Nut	Spare	BJ	BJ-NUT1



1/4" MONO SOCKET MARSHALL® TYPE PCB

Mono input jack, 4 PCB mount terminals.

Type	Pins	Mounting	Code
Mono	4 Pins	PCB	BJ103
Nut	Spare	BJ	BJ-NUT1



1/4" STEREO SOCKET MARSHALL® TYPE PCB

Stereo input jack, 6 pin PCB board connector.

Type	Pins	Mounting	Code
Stereo	6 Pins	PCB	BJ104
Nut	Spare	BJ	BJ-NUT1



1/4" MONO SOCKET PCB

Fender® PCB Mount jack. Mono 4 pins.

Type	Pins	Mounting	Code
Mono	4 Pin	PCB	BJ106



1/4" STEREO SOCKET PCB

Fender® PCB Mount jack. Stereo 9 pins.

Type	Pins	Mounting	Code
Stereo	9 Pins	PCB	BJ107



1/4" SWITCHCRAFT OPEN MONO SOCKET

1/4" female. Open circuit. Can be used as replacement in Fender®, external speaker/guitar output/effects pedals.

Type	Mounting	Code
Mono	Panel	SCJ11



1/4" SWITCHCRAFT SHORTING MONO SOCKET

1/4" female. Shorting type.
Fender® type replacement.

Type	Mounting	Code
Mono	Panel	SCJ12A



1/4" SWITCHCRAFT OPEN STEREO SOCKET

1/4" female. Stereo double open circuit.
Can be used for effect pedal input.

Type	Mounting	Code
Stereo	Panel	SCJ12B





□ Guitar Volume Pots

ALPHA DUAL POTENTIOMETERS

1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 5/16" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Dual Linear	100K	V30-100KBX2
Dual Log	1M	V30-1MAX2



ALPHA POTENTIOMETERS

Ultra high quality damped rotational movement provides very smooth feel throughout turn. Audio/Log pots are typically used for volume control, and Linear pots are typically used for effects. 1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 5/16" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Linear	5K	V30-5KB
Linear	10K	V30-10KB
Linear	25K	V30-25KB
Linear	100K	V30-100KB
Linear	250K	V30-250KB
Log	100K	V30-100KA
Log	250K	V30-250KA
Log	500K	V30-500KA
Log	1M	V30-1MA



CTS POTENTIOMETERS

Smooth action and top quality potentiometer. 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 3/8" Hole, 1/4" Solid nylon spindle shaft for the set screw or push-on knobs. Comes With Hex Nut and Washer.

NYLON INSULATED SHAFT

Type	Value	Code
Linear	100K	V32-100KB
Log	10K	V32-10KA
Log	250K	V32-250KA
Log	1M	V32-1MA
Reverse Log	50K	V32-50KRA
Reverse Log	3M	V32-3MRA



CTS POTENTIOMETERS WITH PUSH/PULL

Single Pole switch. 1/4" Shaft with 1.5mm centre cut, 24mm Body, Solder Lugs, 1/2 Watt Rated, 125Vac 3A. Fits 3/8" Hole. Comes With Hex Nut and Washers.

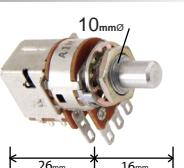
Type	Value	Code
Log	10K	V34-10KA
Log	1M	V34-1MA



1M-LOG PUSH/PULL POTENTIOMETER DPDT

1M-log, stereo (can be wired in parallel to achieve a 500KA pot), 1/4" solid metal shaft, solder lug terminals, DPDT Switch. Suitable for Master volume.

Type	Value	Code
Log	1M	Z-PA1M



POTENTIOMETER - PCB MOUNT

TUBE AMP DOCTOR - ENGL®

- Engl® Screamer 50 (E335)
- Engl® Thunder 50 (E320)

Type	Value	Code
Log	250KΩ	Z-E-A250K

Type	Value	Code
Linear	20KΩ	Z-E-B20K
Linear	1MΩ	Z-E-B1M

ENGL



VOLUME POTS

POTENTIOMETERS

See Following Pages...



□ Guitar Knobs

KNOBS "CHICKEN HEAD"

Colour	Code
Red	KB010
White	KB050
Blue	KB100
Yellow	KB150
Ivory	KB200
Black	KB250
Dark Brown	KB300
Green	KB350
Mint	KB400
Maroon	KB450
Orange	KB500
Hot Pink	KB550
Purple	KB600
Silver	KB650
Light Brown	KB700

As used on Fender Amps, etc.
1/4" 6.35mm Half-Moon Grub screw



KNOBS BLACK PLASTIC

MATCHING EQUIPMENT STYLE

6.35mm shaft, Grubscrew fixing
Same style, different sizes;

Size	Code
19x16mmØ	KB7760
16x20mmØ	KB7762
20x24mmØ	KB7764
19x35mmØ	KB7766



6mm Star Push-On

Size	Code
14x15mmØ	KB7770

KNOBS COLOUR CAP

PUSH ON STYLE

6.35mm shaft, 18x20mmØ

Colour	Code
RED	KB7705
YELLOW	KB7713
BLACK	KB7707
WHITE	KB7715
BLUE	KB7709
GREY	KB7717



KNOBS SKIRT

6.35mm shaft Grubscrew fixing 23.5x36mmØ

Shaft	6.35mm
Size	23.5x36mmØ
Code	KB7549



KNOBS BRUSHED ALUMINIUM

High quality brushed aluminium finish.
6.35mm shaft, 14x22mmØ

Shaft	6.35mm
Size	14x22mmØ
Code	KB7022



KNOBS CLASSIC

BLACK PLASTIC ALUMINIUM INSERT

Shaft	6.35mm
Size	15x27mmØ
Code	KB7740



MARSHALL STYLE KNOB WITH SCREW

Marshall Style Knob with screw, 6.3 mm Axis, Black with Gold cap.
To suit 1/4" / 6.3mm shaft. Includes black set screw like the historic original knobs.

Shaft	6.35mm
Size	15x20mmØ
Code	KNB-MK

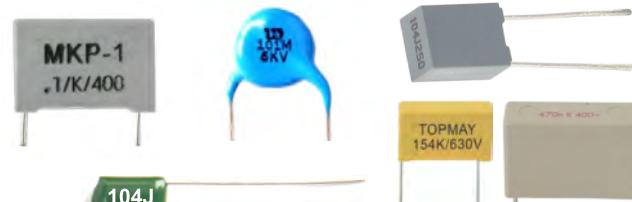
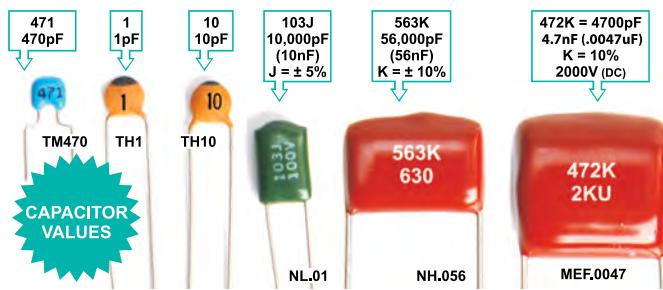




Electronic Components

□ Capacitors

CAPACITOR CODE DECIPHER



Code	Tolerance
B	±0.10%
C	±0.25%
D	±0.50%
E	±0.5%
F	±1%
G	±2%
H	±3%
J	±5%
K	±10%
M	±20%
N	±0.05%
P	+100%, -0%
Z	+80%, -20%

Capacitance Conversion Table

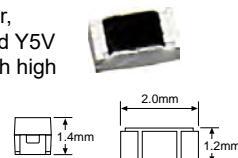
0.000,001μF =	0.001nF =	1pF	1R0
0.000,01μF =	0.01nF =	10pF	100
0.000,1μF =	0.1nF =	100pF	101
0.001μF =	1nF =	1,000pF	102
0.01μF =	10nF =	10,000pF	103
0.1μF =	100nF =	100,000pF	104
1μF =	1,000nF =	1,000,000pF	105
10μF =	10,000nF =	10,000,000pF	106
100μF =	100,000nF =	100,000,000pF	107

□ Capacitors SMD

CERAMIC CHIP CAPACITOR SMD 0805

High density and high efficiency, multi-layer, ceramic condenser, made of NP0, X7R and Y5V dielectrics and which provide a product with high electrical precision, stability and reliability.

Size 0805 [2012 Metric]
Tolerance 10% (NPO/X7R)
Temp. NPO/X7R -55°C to +125°C
Temp. Y5V -30°C to +85°C

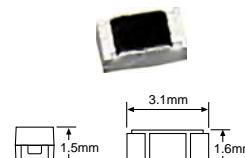


Value	Type	Volts	Pack of	Code
1pF	NPO	50V	10	1CNA50
2.7pF	NPO	50V	10	2.7CNA50
3.9pF	NPO	50V	10	3.9CNA50
5pF	NPO	50V	10	5CNA50
10pF	NPO	50V	10	10CNA50
12pF	NPO	50V	10	12CNA50
15pF	NPO	50V	10	15CNA50
18pF	NPO	50V	10	18CNA50
22pF	NPO	50V	10	22CNA50
27pF	NPO	50V	10	27CNA50
33pF	NPO	50V	10	33CNA50
47pF	NPO	50V	10	47CNA50
68pF	NPO	50V	10	68CNA50
100pF	NPO	50V	10	100CNA50
220pF	X7R	50V	10	220CXA50
270pF	X7R	50V	10	270CXA50
330pF	X7R	50V	10	330CXA50
470pF	X7R	50V	10	470CXA50
680pF	X7R	50V	10	680CXA50
.001μF	X7R	50V	10	.001CXA50
.0022μF	X7R	50V	10	.0022CXA50
.0047μF	X7R	50V	10	.0047CXA50
.0068μF	X7R	50V	10	.0068CXA50
.01μF	5YV	50V	10	.01CYA50
.033μF	5YV	50V	10	.033CYA50
.047μF	X7R	50V	10	.047CXA50
.047μF	5YV	50V	10	.047CYA50
.1μF	5YV	50V	10	.1CYA50
.22μF	5YV	25V	10	.22CYA25
.39μF	5YV	16V	10	.39CYA16
.47μF	5YV	16V	10	.47CYA16
1μF	5YV	16V	10	1CYA16

CERAMIC CHIP CAPACITOR SMD 1206

High density and high efficiency, multi-layer, ceramic condenser, made of NP0, X7R and Y5V dielectrics and which provide a product with high electrical precision, stability and reliability.

Size 0805 [2012 Metric]
Tolerance 10% (NPO/X7R)
Temp. NPO/X7R -55°C to +125°C
Temp. Y5V -30°C to +85°C



Order one to receive a pack of ten.

Value	Type	Volts	Pack of	Code
1pF	NPO	50V	10	1CNB50
4.7pF	NPO	50V	10	4.7CNB50
10pF	NPO	50V	10	10CNB50
12pF	NPO	50V	10	12CNB50
15pF	NPO	50V	10	15CNB50
18pF	NPO	50V	10	18CNB50
22pF	NPO	50V	10	22CNB50
27pF	NPO	50V	10	27CNB50
33pF	NPO	50V	10	33CNB50
47pF	NPO	50V	10	47CNB50
100pF	NPO	50V	10	100CNB50
220pF	X7R	50V	10	220CXB50
270pF	X7R	50V	10	270CXB50
330pF	X7R	50V	10	330CXB50
470pF	X7R	50V	10	470CXB50
.001μF	X7R	50V	10	.001CXB50
.0022μF	X7R	50V	10	.0022CXB50
.0047μF	X7R	50V	10	.0047CXB50
.0068μF	X7R	50V	10	.0068CXB50
.01μF	5YV	50V	10	.01CYB50
.033μF	5YV	50V	10	.033CYB50
.047μF	X7R	50V	10	.047CXB50
.047μF	5YV	50V	10	.047CYB50
.1μF	X7R	50V	10	.1CXB50
.1μF	5YV	50V	10	.1CYB50
.22μF	5YV	50V	10	.22CYB50
.47μF	5YV	50V	10	.47CYB50
1μF	5YV	50V	10	1CYB50



□ Electrolytic SMD

ELECTROLYTIC SMD

SURFACE MOUNT - ULTRA COMPACT MXM

Especially suitable for dual surface, high density boards. Will substitute most surface mount capacitor replacement. Anti-solvent materials. Tin can, plastic base, flat legs. Tolerance $\pm 20\%$. Temperature -40°C to $+80^\circ\text{C}$



Value	Volts	Size	Code
0.1μF	50V	4X5	.1MXM50
0.22μF	50V	4X5	.22MXM50
0.33μF	50V	4X5	.33MXM50
0.47μF	50V	3X5	.47MXM50
1μF	50V	3X5	1MXM50
2.2μF	35V	3X5	2.2MXM35
2.2μF	50V	4X5	2.2MXM50
3.3μF	35V	3X5	3.3MXM35
3.3μF	50V	4X5	3.3MXM50
4.7μF	25V	3X5	4.7MXM25
4.7μF	50V	5X5	4.7MXM50
10μF	16V	3X5	10UWX16
10μF	16V	4X5	10MXM16
22μF	4V	3X5	22MXM4
22μF	6.3V	3X5	22UWX6.3
22μF	6.3V	4X5	22MXM6.3
22μF	35V	6.3X5	22MXM35
22μF	50V	8X6	22MXM50
33μF	4V	4X5	33MXM4
33μF	10V	5X5	33MXM10
47μF	4V	4X5	47MXM4
47μF	6.3V	5X5	47MXM6.3
47μF	16V	6.3X5	47MXM16
47μF	35V	8X6	47MXM35
47μF	50V	10X10	47MXM50
100μF	6.3V	6.3X5	100MXM6.3
100μF	16V	8x6	100MXM16
100μF	25V	8X10	100MXM25
100μF	35V	6X8	100MXM35
220μF	10V	6X8	220MXM10
330μF	6.3V	8X6	330MXM6.3
470μF	6.3V	8X10	470MXM6.3
470μF	10V	10X10	470MXM16
680μF	6.3V	10X10	680MXM6.3



ELECTROLYTIC SMD HIGH TEMPERATURE

SURFACE MOUNT - 105°C

Similar to MXM Series Except:
Temperature -55°C to 105°C
Tolerance 20%

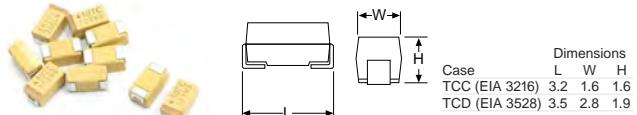


Value	Volts	Size	Code
0.1μF	50V	4X5	.1HB50
0.22μF	50V	4X5	.22HB50
0.47μF	50V	4X5	.47HB50
1μF	50V	4X5	1HB50
2.2μF	50V	4X6	2.2HB50
4.7μF	25V	5X6	4.7HB25
4.7μF	50V	5X6	4.7HB50
6.8μF	25V	4X6	6.8HB25
10μF	16V	4X6	10HB16
10μF	16V	3X5	10UWT16
22μF	6.3V	4X6	22HB6.3
22μF	16V	5X6	22HB16
33μF	10V	5X6	33HB10
47μF	6.3V	5X6	47HB6.3
47μF	16V	5X6	47HB16
100μF	6.3V	6X6	100HB6.3

TANTALUM CAPACITORS SMD

PACK OF 10 PIECES

Suitable for reflow or hand soldering
Temperature range -55°C to $+125^\circ\text{C}$
Tolerance: $\pm 20\%$



Value	Volts	Size	Pack of	Code
.47μF	35V	3.2x1.6x1.6	10	.47TCC35
1μF	35V	3.2x1.6x1.6	10	1TCC35
2.2μF	20V	3.2x1.6x1.6	10	2.2TCC20
2.2μF	25V	3.5x2.8x1.9	10	2.2TCD25
4.7μF	16V	3.2x1.6x1.6	10	4.7TCC16
4.7μF	20V	3.5x2.8x1.9	10	4.7TCD20
10μF	10V	3.2x1.6x1.6	10	10TCC10
10μF	16V	3.5x2.8x1.9	10	10TCD16
22μF	16V	3.5x2.8x1.9	10	22TCD16

□ Capacitance Meters

LCR MULTIMETER

WITH USB PC INTERFACE

Dual LCD display + bar graph.
Auto LCR smart check and measurement.
L : 20.0 μH to 200.00 H
C : 20.0 μF to 2000 μF
R : 20.000 ohm to 200.0M ohm
Series/Parallel modes are selectable.
Five test frequency are available :
100/120/1K/10K/100KHz
Ls/Lp/Cs/Cp with D/Q/ESR.
RS232/USB computer interface.
Optional SMD test clips and probe.

Description	Code
LCR Meter	LCR9183
SMD Clips	SMDA-22
SMD Probe	SMDC21

CAPACITANCE METER

LSI-circuit allows high reliability and durability.
Accuracy is provided from a crystal time base
and fast sampling. Lutron precision meter.
200pF (0.1pF $\pm 0.5\%$) 20,000uF (10uF $\pm 2.0\%$)

Code
DM9023

TOOLS & TEST EQUIPMENT SECTION 07





Electronic Components

□ Variable

PVC TUNERS

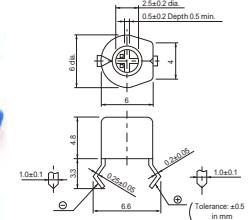
Tuning capacitor Common mechanical Capacitor type to suit AM-FM radios. Current stock: 7 Pin 20x20x12mm



Code
PVC5

TRIMMER CAPACITORS

Temp. -25°C +85°C
Volts 50Vdc
Vmax 500Vdc
Insulation 100MΩ



Value	Colour	Pitch	Temp Coef	Code
1.5 - 5pf	Blue	5mm	NPO	TC50
2.7 - 10pf	Blue	5mm	NPO	TC100
4.2 - 20pf	Red	5mm	N750	TC200
5.2 - 30pf	Green	5mm	N750	TC300
6.8 - 45pf	Yellow	5mm	N1200	TC450
9.8 - 60pf	Brown	5mm	N1200	TC600

□ Ceramic

CERAMIC 500V

General purpose replacement ceramic disc capacitors.
Low loss, high stability, Through-hole mounting.
-55°C +85°C



CERAMIC MONOLITHIC 50V

TM SERIES LOW PROFILE CERAMIC CHIP CAPACITORS

Epoxy coated multi-layer.
Ideal for general replacement of ceramic capacitors, etc.
-55°C +125°C



Value	Tolerance	Pitch	Code
1pf	5%	5mm	TH1
1.2μf	5%	5mm	TH1.2
1.5pf	5%	5mm	TH1.5
1.8pf	5%	5mm	TH1.8
2.2pf	5%	5mm	TH2.2
2.7pf	5%	5mm	TH2.7
3.3pf	5%	5mm	TH3.3
3.9pf	5%	5mm	TH3.9
4.7pf	5%	5mm	TH4.7
5.6pf	5%	5mm	TH5.6
6.8pf	5%	5mm	TH6.8
8.2pf	5%	5mm	TH8.2
10pf	5%	5mm	TH10
12pf	5%	5mm	TH12
15pf	5%	5mm	TH15
18pf	5%	5mm	TH18
22pf	5%	5mm	TH22
27pf	5%	5mm	TH27
33pf	5%	5mm	TH33
39pf	5%	5mm	TH39
47pf	5%	5mm	TH47
56pf	5%	5mm	TH56
68pf	5%	5mm	TH68
82pf	5%	5mm	TH82
100pf	10%	5mm	TH100
120pf	10%	5mm	TH120
150pf	10%	5mm	TH150
180pf	10%	5mm	TH180
220pf	10%	5mm	TH220
270pf	10%	5mm	TH270
330pf	10%	5mm	TH330
390pf	10%	5mm	TH390
470pf	10%	5mm	TH470
560pf	10%	5mm	TH560
680pf	10%	5mm	TH680
820pf	10%	5mm	TH820
1000pf	10%	5mm	TH1000

Value	Tolerance	Pitch	Code
100pf	5%	5.5mm	TM100
220pf	5%	5.5mm	TM220
330pf	5%	5.5mm	TM330
390pf	5%	5.5mm	TM390
470pf	5%	5.5mm	TM470
680pf	5%	5.5mm	TM680
1nf	5%	5.5mm	TM.001
2.2nf	5%	5.5mm	TM.0022
3.3nf	5%	5.5mm	TM.0033
3.9μf	5%	5.5mm	TM.0039
4.7nf	5%	5.5mm	TM.0047
6.8nf	5%	5.5mm	TM.0068
10nf	5%	5.5mm	TM.01
22nf	5%	5.5mm	TM.022
33nf	5%	5.5mm	TM.033
47nf	5%	5.5mm	TM.047
100nf	5%	5.5mm	TM.1
220nf	5%	5.5mm	TM.22
330nf	5%	5.5mm	TM.33
470nf	5%	5.5mm	TM.47
1μf	5%	5.5mm	TM1

CERAMIC Y2 CLASS 250V

Suppression Caps used across mains & earth. Y2 Safety Standard. 5000Vac pulse. 15mm pitch.



Value	Vmax	Pitch	Code
.0022μF	5KVpeak	15mm	.0022CERY2-250
.0047μF	5KVpeak	15mm	.0047CERY2-250



Ceramic

CERAMIC 2KV

Suit Pulse circuits. "WR" Series.
Low loss with minimal drift.
-25°C +125°C Tolerance 10%



Value	Volts	Pitch	Code
220 pf	2KV	7.5mm	WR220
270 pf	2KV	5.5mm	WR270
330 pf	2KV	7.5mm	WR330
390 pf	2KV	7.5mm	WR390
470 pf	2KV	5.5mm	WR470
560 pf	2KV	5.5mm	WR560
680 pf	2KV	5.5mm	WR680
820 pf	2KV	5.5mm	WR820
1000 pf	2KV	8mm	WR1000
1200 pf	2KV	8mm	WR1200
1500 pf	2KV	5.5mm	WR1500
1800 pf	2KV	8mm	WR1800
2200 pf	2KV	5.5mm	WR2200
2700 pf	2KV	10.5mm	WR2700
3300 pf	2KV	10.5mm	WR3300
3900 pf	2KV	10.5mm	WR3900
4700 pf	2KV	7mm	WR4700
5600 pf	2KV	7mm	WR5600
6800 pf	2KV	7mm	WR6800
8200 pf	2KV	7mm	WR8200

CERAMIC 6KV

Suit Pulse circuits. "DE" Series. Low loss with minimal temperature drift. -25°C +125°C Tolerance 10%



Value	Pitch	Volts	Code
3.3 pf	10mm	6KV	DE3.3
3.9 pf	10mm	6KV	DE3.9
4.7 pf	10mm	6KV	DE4.7
5.6 pf	10mm	6KV	DE5.6
6.8 pf	10mm	6KV	DE6.8
8.2 pf	10mm	6KV	DE8.2
10 pf	10mm	6KV	DE10
12 pf	10mm	6KV	DE12
15 pf	10mm	6KV	DE15
18 pf	10mm	6KV	DE18
22 pf	10mm	6KV	DE22
27 pf	10mm	6KV	DE27
33 pf	10mm	6KV	DE33
39 pf	10mm	6KV	DE39
47 pf	10mm	6KV	DE47
68 pf	10mm	6KV	DE68
82 pf	10mm	6KV	DE82
100 pf	10mm	6KV	DE100
120 pf	10mm	6KV	DE120
150 pf	10mm	6KV	DE150
180 pf	10mm	6KV	DE180
220 pf	10mm	6KV	DE220
270 pf	10mm	6KV	DE270
330 pf	10mm	6KV	DE330
390 pf	10mm	6KV	DE390
470 pf	10mm	6KV	DE470
560 pf	10mm	6KV	DE560
680 pf	10mm	6KV	DE680
820 pf	10mm	6KV	DE820
1000 pf	10mm	6KV	DE1000
1200 pf	10mm	6KV	DE1200
1500 pf	10mm	6KV	DE1500
1800 pf	10mm	6KV	DE1800
2200 pf	10mm	6KV	DE2200
3300 pf	10mm	6KV	DE3300
3600 pf	12mm	6KV	DE3600
3900 pf	12mm	6KV	DE3900
4700 pf	12mm	6KV	DE4700
5600 pf	12mm	6KV	DE5600
6800 pf	12mm	6KV	DE6800
8200 pf	12mm	6KV	DE8200

Silver Mica

SILVER MICA CAPACITORS 500V

Absolute best sounding capacitors for audio, tone and filter circuits, etc. Also ideal for Oscillators and TX ccts. Sourced from the USA, for HOT valves. MIL-C-5 RS153. Indian Ruby Muscovite & Epoxy Resin Dipped Superior heat, moisture, shock resistance. High stability -55 to 135°C Tolerance ±5% Long life reliability.

Audiophile sound. www.simicelectronics.com



Value	Pitch	Code
10pf	6mm	SMC10
15pf	6mm	SMC15
22pf	6mm	SMC22
27pf	6mm	SMC27
33pf	6mm	SMC33
39pf	6mm	SMC39
47pf	6mm	SMC47
56pf	6mm	SMC56
68pf	6mm	SMC68
82pf	6mm	SMC82
100pf	6mm	SMC100
120pf	6mm	SMC120
150pf	6mm	SMC150
180pf	6mm	SMC180
220pf	6mm	SMC220
250pf	6mm	SMC250
270pf	6mm	SMC270
330pf	6mm	SMC330
390pf	6mm	SMC390
470pf	6mm	SMC470
500pf	6mm	SMC500
680pf	6mm	SMC680
1000pf	9mm	SMC1000

Tantalum

TANTALUM CAPACITORS



Value	Volts	Pitch	Code
100nf	35v	3mm	.1T35V
220nf	35v	3mm	.22T35V
330nf	35v	3mm	.33T35V
470nf	35v	3mm	.47T35V
680nf	35v	3mm	.68T35V
1μf	35v	3mm	1T35V
2.2μf	16v	3mm	2.2T16V
2.2μf	35v	3mm	2.2T35V
3.3μf	16v	3mm	3.3T16V
3.3μf	35v	3mm	3.3T35V
4.7μf	16v	3mm	4.7T16V
4.7μf	35v	3mm	4.7T35V
6.8μf	16v	3mm	6.8T16V
6.8μf	25v	3mm	6.8T25V
6.8μf	35v	3mm	6.8T35V
10μf	16v	3mm	10T16V
10μf	25v	3mm	10T25V
10μf	35v	3mm	10T35V
15μf	16v	3mm	15T16V
15μf	25v	3mm	15T25V
15μf	35v	3mm	15T35V
22μf	16v	3mm	22T16V
22μf	25v	3mm	22T25V
22μf	35v	3mm	22T35V
33μf	10v	3mm	33T10
33μf	16v	3mm	33T16V
33μf	25v	3mm	33T25V
47μf	16v	3mm	47T16V
47μf	25v	6mm	47T25V
47μf	35v	6mm	47T35V
100μf	6v	3mm	100T6V
100μf	16v	3mm	100T16V



Electronic Components

Polyester

POLYESTER MKT-5

5mm PITCH MOUNTING

Metalised Polyester film suitable for blocking, bypassing, filtering, timing, coupling and decoupling circuits, interference suppression in low voltage applications. High temperature operations. RoHS. UL94V-0. -40°C +105°C

100Vdc / 63Vac
250Vdc / 160Vac
400Vdc / 200Vac



Value	Volts	Pitch	Code
0.001μF	100Vdc	5mm	.001MKT5-100
0.001μF	400Vdc	5mm	.001MKT5-400
0.0015μF	100Vdc	5mm	.0015MKT5-100
0.0015μF	400Vdc	5mm	.0015MKT5-400
0.0015μF	63Vdc	5mm	.0015MKT5-63
0.0022μF	100Vdc	5mm	.0022MKT5-100
0.0022μF	400Vdc	5mm	.0022MKT5-400
0.0033μF	100Vdc	5mm	.0033MKT5-100
0.0033μF	400Vdc	5mm	.0033MKT5-400
0.0047μF	100Vdc	5mm	.0047MKT5-100
0.0047μF	400Vdc	5mm	.0047MKT5-400
0.0068μF	100Vdc	5mm	.0068MKT5-100
0.0068μF	250Vdc	5mm	.0068MKT5-250
0.0068μF	400Vdc	5mm	.0068MKT5-400
0.01μF	250Vdc	5mm	.01MKT5-250
0.01μF	400Vdc	5mm	.01MKT5-400
0.015μF	100Vdc	5mm	.015MKT5-100
0.015μF	250Vdc	5mm	.015MKT5-250
0.015μF	400Vdc	5mm	.015MKT5-400
0.022μF	100Vdc	5mm	.022MKT5-100
0.022μF	250Vdc	5mm	.022MKT5-250
0.022μF	400Vdc	5mm	.022MKT5-400
0.033μF	100Vdc	5mm	.033MKT5-100
0.033μF	250Vdc	5mm	.033MKT5-250
0.033μF	400Vdc	5mm	.033MKT5-400
0.047μF	100Vdc	5mm	.047MKT5-100
0.047μF	250Vdc	5mm	.047MKT5-250
0.047μF	400Vdc	5mm	.047MKT5-400
0.068μF	100Vdc	5mm	.068MKT5-100
0.068μF	250Vdc	5mm	.068MKT5-250
0.1μF	250Vdc	5mm	.1MKT5-250
0.15μF	100Vdc	5mm	.15MKT5-100
0.22μF	100Vdc	5mm	.22MKT5-100
0.33μF	100Vdc	5mm	.33MKT5-100
0.47μF	100Vdc	5mm	.47MKT5-100
1.0μF	100Vdc	5mm	1MKT5-100
2.2μF	63Vdc	5mm	2.2MKT5-63

POLYESTER MKT-10

10mm PITCH MOUNTING



Value	Volts	Pitch	Code
0.0047μF	630v	10mm	.0047MKT10-630
0.0068μF	630v	10mm	.0068MKT10-630
0.01μF	630v	10mm	.01MKT10-630
0.015μF	400v	10mm	.015MKT10-400
0.015μF	630v	10mm	.015MKT10-630
0.022μF	400v	10mm	.022MKT10-400
0.022μF	630v	10mm	.022MKT10-630
0.033μF	400v	10mm	.033MKT10-400
0.033μF	630v	10mm	.033MKT10-630
0.047μF	400v	10mm	.047MKT10-400
0.068μF	250v	10mm	.068MKT10-250
0.068μF	400v	10mm	.068MKT10-400
0.1μF	250v	10mm	.1MKT10-250
0.1μF	400v	10mm	.1MKT10-400
0.15μF	250v	10mm	.15MKT10-250
0.22μF	250v	10mm	.22MKT10-250
0.33μF	100v	10mm	.33MKT10-100
0.33μF	250v	10mm	.33MKT10-250
0.47μF	100v	10mm	.47MKT10-100
0.68μF	100v	10mm	.68MKT10-100

POLYESTER MKT-15

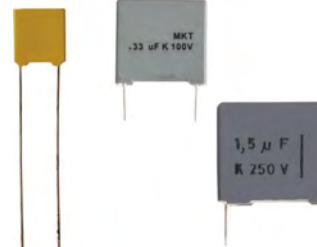
15mm PITCH MOUNTING

Metalised Polyester film suitable for blocking, bypassing, filtering, timing, coupling and decoupling circuits, interference suppression in low voltage applications. High temperature operations. RoHS. UL94V-0. -40°C +105°C

100Vdc / 63Vac
250Vdc / 160Vac
400Vdc / 200Vac
630Vdc / 220Vac



Value	Volts	Pitch	Code
0.022μF	630Vdc	15mm	.022MKT15-630
0.033μF	630Vdc	15mm	.033MKT15-630
0.047μF	400Vdc	15mm	.047MKT15-400
0.047μF	630Vdc	15mm	.047MKT15-630
0.068μF	400Vdc	15mm	.068MKT15-400
0.068μF	630Vdc	15mm	.068MKT15-630
0.1μF	250Vdc	15mm	.1MKT15-250
0.1μF	400Vdc	15mm	.1MKT15-400
0.15μF	250Vdc	15mm	.15MKT15-250
0.15μF	400Vdc	15mm	.15MKT15-400
0.22μF	250Vdc	15mm	.22MKT15-250
0.33μF	100Vdc	15mm	.33MKT15-100
0.33μF	250Vdc	15mm	.33MKT15-250
0.47μF	100Vdc	15mm	.47MKT15-100
0.47μF	250Vdc	15mm	.47MKT15-250
0.68μF	100Vdc	15mm	.68MKT15-100
0.68μF	250Vdc	15mm	.68MKT15-250
1.0μF	100Vdc	15mm	1MKT15-100
1.0μF	250Vdc	15mm	1MKT15-250
1.5μF	100Vdc	15mm	1.5MKT15-100
1.5μF	250Vdc	15mm	1.5MKT15-250
2.2μF	100Vdc	15mm	2.2MKT15-100
2.2μF	250Vdc	15mm	2.2MKT15-250



POLYESTER MKT-22

22.5mm PITCH MOUNTING

Metalized Polyester Film Capacitors. -40°C +105°C
X2 safety approvals. RoHS. UL94V-0. IEC60068-1

100Vdc / 63Vac
250Vdc / 160Vac
400Vdc / 200Vac
630Vdc / 220Vac



Value	Volts	Pitch	Code
0.1μF	630Vdc	22mm	.1MKT22-630
0.15μF	630Vdc	22mm	.15MKT22-630
0.22μF	400Vdc	22mm	.22MKT22-400
0.22μF	630Vdc	22mm	.22MKT22-630
0.33μF	250Vdc	22mm	.33MKT22-250
0.33μF	400Vdc	22mm	.33MKT22-400
0.47μF	250Vdc	22mm	.47MKT22-250
0.47μF	400Vdc	22mm	.47MKT22-400
0.68μF	250Vdc	22mm	.68MKT22-250
1μF	100Vdc	22mm	1MKT22-100
1μF	250Vdc	22mm	1MKT22-250
1.5μF	100Vdc	22mm	1.5MKT22-100
1.5μF	250Vdc	22mm	1.5MKT22-250
2.2μF	100Vdc	22mm	2.2MKT22-100
3.3μF	100Vdc	22mm	3.3MKT22-100

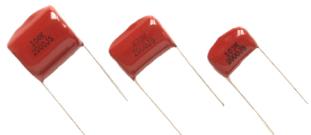


Polyester

POLYESTER & POLYPROPYLENE CAPACITORS

NL & NH METALISED MYLAR EPOXY LACQUERED MEF METALISED POLYPROPYLENE FILM

Non-inductive, High temperature stability,
Ideal for coupling and bypass applications.
Temperature rating: -40°C +85°C



Value	Tolerance	Volts	Pitch	Code
1nf	5%	100Vdc	4mm	NL.001
1nf	10%	630Vdc	10mm	NH.001
1nf	10%	2000Vdc	10mm	MEF.001
1.2nf	10%	630Vdc	10mm	NH.0012
1.2nf	10%	2000Vdc	10mm	MEF.0012
1.5nf	5%	100Vdc	4mm	NL.0015
1.5nf	10%	630Vdc	10mm	NH.0015
1.5nf	10%	2000Vdc	15mm	MEF.0015
1.5nf	10%	2000Vdc	10mm	MEF.0015-10MM
1.8nf	5%	100Vdc	4mm	NL.0018
1.8nf	10%	630Vdc	10mm	NH.0018
1.8nf	10%	2000Vdc	10mm	MEF.0018
2.2nf	5%	100Vdc	4mm	NL.0022
2.2nf	10%	630Vdc	10mm	NH.0022
2.2nf	10%	2000Vdc	10mm	MEF.0022
2.7nf	5%	100Vdc	4mm	NL.0027
2.7nf	10%	630Vdc	10mm	NH.0027
2.7nf	10%	2000Vdc	10mm	MEF.0027
3.3nf	5%	100Vdc	4mm	NL.0033
3.3nf	10%	630Vdc	10mm	NH.0033
3.3nf	10%	2000Vdc	16mm	MEF.0033
3.9nf	5%	100Vdc	4mm	NL.0039
3.9nf	10%	630Vdc	10mm	NH.0039
3.9nf	10%	2000Vdc	16mm	MEF.0039
4.7nf	5%	100Vdc	4mm	NL.0047
4.7nf	10%	630Vdc	10mm	NH.0047
4.7nf	10%	2000Vdc	20mm	MEF.0047
5.6nf	5%	100Vdc	4mm	NL.0056
5.6nf	10%	630Vdc	10mm	NH.0056
5.6nf	10%	2000Vdc	21mm	MEF.0056
6.8nf	5%	100Vdc	4mm	NL.0068
6.8nf	10%	630Vdc	10mm	NH.0068
6.8nf	10%	2000Vdc	16mm	MEF.0068
8.2nf	5%	100Vdc	4mm	NL.0082
8.2nf	10%	630Vdc	12mm	NH.0082
8.2nf	10%	2000Vdc	16mm	MEF.0082
10nf	5%	100Vdc	4mm	NL.01
10nf	10%	630Vdc	10mm	NH.01
10nf	10%	2000Vdc	20mm	MEF.01
15nf	5%	100Vdc	6mm	NL.015
15nf	10%	630Vdc	10mm	NH.015
15nf	10%	2000Vdc	16mm	MEF.015
18nf	5%	100Vdc	5mm	NL.018
22nf	5%	100Vdc	5mm	NL.022
22nf	10%	630Vdc	10mm	NH.022
22nf	10%	2000Vdc	30mm	MEF.022
33nf	5%	100Vdc	6mm	NL.033
33nf	10%	630Vdc	11mm	NH.033
33nf	10%	2000Vdc	23mm	MEF.033
39nf	5%	100Vdc	6mm	NL.039
39nf	10%	2000Vdc	21mm	MEF.039
47nf	5%	100Vdc	6mm	NL.047
47nf	10%	630Vdc	15mm	NH.047
47nf	10%	2000Vdc	21mm	MEF.047
56nf	10%	630Vdc	15mm	NH.056
56nf	10%	2000Vdc	21mm	MEF.056
68nf	5%	100Vdc	8mm	NL.068
68nf	10%	630Vdc	16mm	NH.068
68nf	10%	2000Vdc	29mm	MEF.068
82nf	5%	100Vdc	7mm	NL.082
82nf	10%	630Vdc	16mm	NH.082
82nf	10%	2000Vdc	21mm	MEF.082

Value	Tolerance	Volts	Pitch	Code
100nf	5%	100Vdc	8mm	NL.1
100nf	10%	630Vdc	16mm	NH.1
100nf	10%	2000Vdc	20mm	MEF.1
150nf	10%	2000Vdc	28mm	MEF.15
220nf	5%	100Vdc	8mm	NL.22
220nf	10%	630Vdc	21mm	NH.22
220nf	10%	2000Vdc	28mm	MEF.22
330nf	5%	100Vdc	8mm	NL.33
330nf	10%	630Vdc	28mm	NH.33
330nf	10%	2000Vdc	28mm	MEF.33
390nf	5%	100Vdc	8mm	NL.39
390nf	10%	630Vdc	28mm	NH.39
390nf	10%	2000Vdc	27mm	MEF.39
470nf	5%	100Vdc	8mm	NL.47
470nf	10%	400Vdc	21mm	MEF.47-400
470nf	10%	630Vdc	28mm	NH.47
470nf	10%	2000Vdc	28mm	MEF.47
560nf	5%	100Vdc	10mm	NL.56
650nf	10%	630Vdc	28mm	NH.56
680nf	5%	100Vdc	16mm	NL.68
680nf	10%	630Vdc	21mm	NH.68
820nf	5%	100Vdc	16mm	NL.82
820nf	10%	630Vdc	28mm	NH.82
1μf	5%	100Vdc	16mm	NL1
1μf	10%	630Vdc	28mm	NH1
1.5μf	5%	100Vdc	16mm	NL1.5
10μf	5%	100Vdc	27mm	NL10
2.2μf	5%	100Vdc	20mm	NL2.2
3.3μf	5%	100Vdc	21mm	NL3.3
4.7μf	5%	100Vdc	28mm	NL4.7
5.6μf	5%	100Vdc	28mm	NL5.6
6.8μf	5%	100Vdc	28mm	NL6.8
8.2μf	5%	100Vdc	28mm	NL8.2

POLYPROPYLENE 600VDC - ORANGE DROPS

"Orange Drops" is the nickname for Spragues classic valve type polypropylene film capacitors, due to their colour and shape. This all new PPL range of 715 polypropylene film capacitors justify this reputation of sound quality and long-term reliability. Suitable for any Guitar and home HiFi valve amplifier restoration.



Value	Volts	Pitch	Code
.001μF	600V	10mm	.001PPL600
.0015μF	600V	10mm	.0015PPL600
.0022μF	600V	10mm	.0022PPL600
.0033μF	600V	10mm	.0033PPL600
.0047μF	600V	10mm	.0047PPL600
.01μF	600V	10mm	.01PPL600
.015μF	600V	10mm	.015PPL600
.022μF	600V	10mm	.022PPL600
.047μF	600V	19mm	.047PPL600
.068μF	600V	19mm	.068PPL600
.1μF	600V	19mm	.1PPL600
.15μF	600V	28mm	.15PPL600
.22μF	600V	25mm	.22PPL600
.47μF	400V*	25mm	.47PPL400



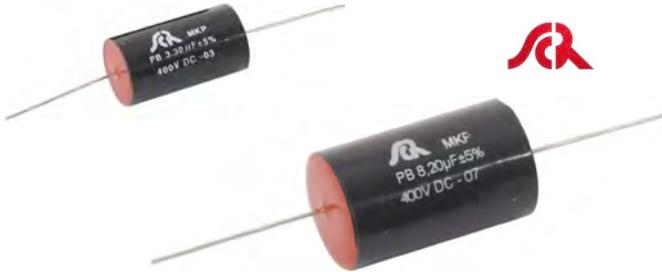
Electronic Components

Polypropylene

METALISED POLYPROPYLENE - MKP

Premium Audiophile grade MKP. Made in France by SCR. Self healing, non-inductive capacitors using the highest grade aluminium metalised polypropylene materials for renowned sonic performance. As used in our HDS audio crossovers.

400Vdc Tolerance 5%. -25°C +85°C IEC 60384-1



Value	Volts	Size	Code
0.15µF	400Vdc	17x7mmØ	SCR.15
0.27µF	400Vdc	24x11mmØ	SCR.27
1µF	400Vdc	22x12mmØ	SCR1
1.6µF	400Vdc	27x14mmØ	SCR1.6
2.2µF	400Vdc	27x16mmØ	SCR2.2
3.0µF	400Vdc	29x18mmØ	SCR3.0
3.3µF	400Vdc	33x17mmØ	SCR3.3
3.9µF	400Vdc	35x18mmØ	SCR3.9
4.7µF	400Vdc	33x24mmØ	SCR4.7
5.6µF	400Vdc	35x21mmØ	SCR5.6
6.8µF	400Vdc	33x24mmØ	SCR6.8
7.5µF	400Vdc	35x24mmØ	SCR7.5
8.2µF	400Vdc	40x24mmØ	SCR8.2
10µF	400Vdc	38x26mmØ	SCR10
12µF	400Vdc	40x28mmØ	SCR12
15µF	400Vdc	45x28mmØ	SCR15
18µF	400Vdc	48x31mmØ	SCR18
20µF	400Vdc	48x31mmØ	SCR20
27µF	400Vdc	54x33mmØ	SCR27
33µF	400Vdc	53x38mmØ	SCR33
47µF	400Vdc	60x43mmØ	SCR47

SOLEN FILM FOIL POLYPROPYLENE CAPACITORS

"SM" AUDIOPHILE PERFORMANCE CAPACITOR

Made in France, these capacitors are renowned their high electrical performance and stability, insignificant dielectric absorption and no piezoelectric effect. Very low series inductance or resistance and very high current capabilities. Ideal for speaker crossovers, audio coupling and high precision applications in Audio. Tin foil poly film.

- Very Low Dielectric Absorption Factor.
- Very Low Equivalent Series Resistance.
- Very Low Inductance.
- Very High Resonant Frequency.
- Ultra Linear Impedance Characteristics.
- Very Low Dissipation Factor.
- Very High Insulation Resistance.



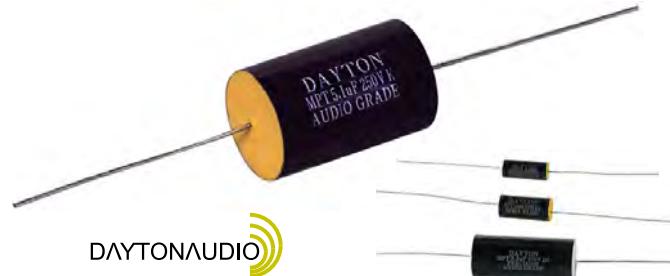
Value	Type	Voltage	Code
.01µf	SN	1200V	TN.01
.022µf	SM	630V	TN.022
.047µf	SM	630V	TN.047
.1µf	SM	630V	TN.1
.22µf	SM	630V	TN.22
.33µf	SM	630V	TN.33
.47µf	SM	630V	TN.47
.68µf	SM	630V	TN.68
.82µf	SM	630V	TN.82
1µf	SM	630V	TN1.0
1.2µf	SY	250V	TN1.2
1.5µf	SE	400V	TN1.5
2.0µf	SE	400V	TN2.0
3.3µf	SE	100V	TN3.3
3.9µf	SE	100V	TN3.9
4.7µf	SE	100V	TN4.7



METALISED POLYPROPYLENE MPT - DAYTON

DAYTON AUDIO DMPC RANGE

The high quality Dayton DMPC polypropylene capacitor is ideal for use in loudspeaker crossover networks, it is also suitable to use as coupling capacitors in the signal path of audio power amplifiers and preamplifiers. 250VDC, 5% tolerance, high purity, low-loss.



Value	Volts	Size	Code
0.1µF	250V	15x6mm	MPT-0.1
0.22µF	250V	19x8mmØ	MPT-0.22
0.33µF	250V	19x8.5mmØ	MPT-0.33
0.47µF	250V	25x8.5mmØ	MPT-0.47
0.68µF	250V	25x9.5mmØ	MPT-0.68
1µF	250V	31x10.5mmØ	MPT-1.0
1.5µF	250V	31x11mmØ	MPT-1.5
2µF	250V	31x13.5mmØ	MPT-2.0
2.2µF	250V	31x15mmØ	MPT-2.2
2.7µF	250V	31x16mmØ	MPT-2.7
3µF	250V	31x16.5mmØ	MPT-3.0
3.3µF	250V	31x17.5mmØ	MPT-3.3
4µF	250V	31x18mmØ	MPT-4.0
4.3µF	250V	31x18mmØ	MPT-4.3
4.7µF	250V	31x19mmØ	MPT-4.7
5.1µF	250V	31x20mmØ	MPT-5.1
5.6µF	250V	31x20mmØ	MPT-5.6
6.2µF	250V	31x21mmØ	MPT-6.2
6.8µF	250V	31x18mmØ	MPT-6.8
7.5µF	250V	46x20mmØ	MPT-7.5
8.2µF	250V	46x21.5mmØ	MPT-8.2
10µF	250V	46x22mmØ	MPT-10.0
12µF	250V	54x20mmØ	MPT-12.0
15µF	250V	56x25mmØ	MPT-15.0
18µF	250V	55x25mmØ	MPT-18.0
20µF	250V	56x28.5mmØ	MPT-20.0
25µF	250V	61x30mmØ	MPT-25.0
27µF	250V	61x30mmØ	MPT-27.0
30µF	250V	61x31mmØ	MPT-30.0
33µF	250V	61x33mmØ	MPT-33.0
40µF	250V	61x36mmØ	MPT-40.0
47µF	250V	61x39mmØ	MPT-47.0
50µF	250V	77x37mmØ	MPT-50.0
60µF	250V	77x39mmØ	MPT-60.0
90µF	250V	77x48mmØ	MPT-90.0
100µF	250V	77x51mmØ	MPT-100.0

POLYPROPYLENE 400VDC BY-PASS CAPACITOR

DAYTON AUDIO

The Dayton Audio film and foil polypropylene capacitors are ideal for bypass use, have low ESR and superior sonic detail.



Value	Volts	Size	Code
0.01µF	400Vdc	18x6.5mmØ	DFFC-0.01
0.1µF	400Vdc	18x12mmØ	DFFC-0.10
0.22µF	400Vdc	35x11mmØ	DFFC-0.22
0.33µF	400Vdc	35x13mmØ	DFFC-0.33
0.47µF	400Vdc	35x16mmØ	DFFC-0.47

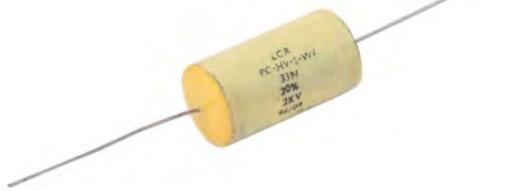


Polypropylene

METALISED POLYPROPYLENE KP 2KV

2000VDC / 600VAC AXIAL LCR / PC / HV / S / WF

Film-Foil Polypropylene Low Loss High Voltage and Current with fast response and high specifications for a long service life.



Value	Volts	Size	Code
.001µF (1nf)	2KVdc	21x6mmØ	KP.001
.0012µF (1.2nf)	2KVdc	21x6mmØ	KP.0012
.0015µF (1.5nf)	2KVdc	21x7mmØ	KP.0015
.0018µF (1.8nf)	2KVdc	21x9mmØ	KP.0018
.0022µF (2.2nf)	2KVdc	21x9mmØ	KP.0022
.0027µF (2.7nf)	2KVdc	26x7mmØ	KP.0027
.0033µF (3.3nf)	2KVdc	28x8mmØ	KP.0033
.0039µF (3.9nf)	2KVdc	28x8mmØ	KP.0039
.0047µF (4.7nf)	2KVdc	27x6mmØ	KP.0047
.0056µF (5.6nf)	2KVdc	27x9mmØ	KP.0056
.0068µF (6.8nf)	2KVdc	27x10mmØ	KP.0068
.0082µF (8.2nf)	2KVdc	28x8mmØ	KP.0082
.0091µF (9.1nf)	2KVdc	27x8mmØ	KP.0091
.0095µF (9.5nf)	2KVdc	27x8mmØ	KP.0095
.01µF (10nf)	2KVdc	27x9mmØ	KP.01
.011µF (11nf)	2KVdc	27x10mmØ	KP.011
.015µF (15nf)	2KVdc	33x11mmØ	KP.015
.022µF (22nf)	2KVdc	33x13mmØ	KP.022
.033µF (33nf)	2KVdc	33x17mmØ	KP.033
.039µF (39nf)	2KVdc	33x19mmØ	KP.039
.047µF (47nf)	2KVdc	32x16mmØ	KP.047

METALISED POLYPROPYLENE PMT 250V

250VDC / 160VAC AXIAL

Non-Inductive, wrap & fill with Polypropylene tape & Epoxy resin. Widely used in communication and electronic industries as timing integrating and filter networks. Tolerance 10%. -40°C +85°C.



Value	Volts	Size	Code
10nF	250Vdc	14x5mmØ	PMT.01
15nF	250Vdc	14x5mmØ	PMT.015
22nF	250Vdc	14x5mmØ	PMT.022
33nF	250Vdc	14x5mmØ	PMT.033
47nF	250Vdc	14x5mmØ	PMT.047
68nF	250Vdc	14x5mmØ	PMT.068
100nF	250Vdc	14x5mmØ	PMT.1
150nF	250Vdc	14x5mmØ	PMT.15
220nF	250Vdc	19x9mmØ	PMT.22
330nF	250Vdc	25x10mmØ	PMT.33
470nF	250Vdc	25x10mmØ	PMT.47
500nF	250Vdc	25x12mmØ	PMT.5
680nF	250Vdc	25x12mmØ	PMT.68
820nF	250Vdc	25x12mmØ	PMT.82
1µF	250Vdc	32x12mmØ	PMT1
1.5µF	250Vdc	32x15mmØ	PMT1.5
2.2µF	250Vdc	32x17mmØ	PMT2.2
2.7µF	250Vdc	32x17mmØ	PMT2.7
3.3µF	250Vdc	37x17mmØ	PMT3.3
3.9µF	250Vdc	37x19mmØ	PMT3.9
4.7µF	250Vdc	37x21mmØ	PMT4.7
5.6µF	250Vdc	47x19mmØ	PMT5.6
6.2µF	250Vdc	47x19mmØ	PMT6.2
6.8µF	250Vdc	47x19mmØ	PMT6.8
8.2µF	250Vdc	47x25mmØ	PMT8.2
10µF	250Vdc	47x26mmØ	PMT10
12µF	250Vdc	47x29mmØ	PMT12
15µF	250Vdc	47x34mmØ	PMT15
20µF	250Vdc	57x31mmØ	PMT20

Crossovers Assembled

LOW PASS SPEAKER CROSSOVER - DAYTON

USE IN COMBINATION WITH OTHER LOW PASS AND HIGH PASS CROSSOVERS

This 2nd order (i.e. 12 dB per octave) low pass Linkwitz-Riley filter from Dayton Audio passes frequencies below 6,000 Hz and can easily be combined with other filters in this series to create 2-way or even 3-way crossover networks. Designed for use with 8 or 4 ohm drivers.

- High quality Dayton AC20 air core inductors* in series with the driver
- and Dayton MPT Metalised Poly' Caps are parallel with the driver
- Components are securely fastened to PCB to remove rattles
- Frequencies can be staggered or overlapped for desired response
- High quality red PC board, EVA backing to prevent shorts & vibration
- Dual 4.7mm terminals at each connection for easy parallel wiring

Frequency	Impedance	Code
500Hz	4Ω	500-LPF-4
500Hz	8Ω	500-LPF-8
600Hz	4Ω	600-LPF-4
600Hz	8Ω	600-LPF-8
700Hz	4Ω	700-LPF-4
700Hz	8Ω	700-LPF-8
800Hz	4Ω	800-LPF-4
800Hz	8Ω	800-LPF-8
2KHz	4Ω	2K-LPF-4
2KHz	8Ω	2K-LPF-8
2.5KHz	4Ω	2.5K-LPF-4
2.5KHz	8Ω	2.5K-LPF-8
3KHz	4Ω	3K-LPF-4
3KHz	8Ω	3K-LPF-8
3.5KHz	4Ω	3.5K-LPF-4
3.5KHz	8Ω	3.5K-LPF-8
4KHz	8Ω	4K-LPF-8
4.5KHz	4Ω	4.5K-LPF-4
4.5KHz	8Ω	4.5K-LPF-8
5KHz	4Ω	5K-LPF-4
5KHz	8Ω	5K-LPF-8
5.5KHz	4Ω	5.5K-LPF-4
6KHz	4Ω	6K-LPF-4
6KHz	8Ω	6K-LPF-8



HIGH PASS SPEAKER CROSSOVER - DAYTON

USE IN COMBINATION WITH OTHER HIGH-PASS AND LOW-PASS CROSSOVERS

- High quality MPT metalised poly' capacitor in series with the driver
- Dayton AC20 air core inductors* (Larger values IR18) in parallel
- High quality components are securely fastened to PCB
- Frequencies can be staggered or overlapped for desired response

Frequency	Impedance	Code
500Hz	4Ω	500-HPF-4
500Hz	8Ω	500-HPF-8
600Hz	8Ω	600-HPF-8
700Hz	8Ω	700-HPF-8
800Hz	4Ω	800-HPF-4
800Hz	8Ω	800-HPF-8
2KHz	4Ω	2K-HPF-4
2KHz	8Ω	2K-HPF-8
2.5KHz	4Ω	2.5K-HPF-4
2.5KHz	8Ω	2.5K-HPF-8
3KHz	4Ω	3K-HPF-4
3KHz	8Ω	3K-HPF-8
3.5KHz	4Ω	3.5K-HPF-4
3.5KHz	8Ω	3.5K-HPF-8
4KHz	4Ω	4K-HPF-4
4KHz	8Ω	4K-HPF-8
4.5KHz	4Ω	4.5K-HPF-4
4.5KHz	8Ω	4.5K-HPF-8
5KHz	4Ω	5K-HPF-4
5KHz	8Ω	5K-HPF-8
5.5KHz	4Ω	5.5K-HPF-4
5.5KHz	8Ω	5.5K-HPF-8
6KHz	4Ω	6K-HPF-4
6KHz	8Ω	6K-HPF-8





Electronic Components

Polypropylene

METALISED POLYPROPYLENE MKP1

250VDC / 400VDC / 630VDC

High pulse applications, electronics ballast, timing, oscillators, etc.
250Vdc(200Vac), 400Vdc(220Vac) 630Vdc(250Vac)
MKP-1 Series Approval test - IEC384-16 / IEC68, 105°C

Value	Volts	Pitch	Code
0.047µF	250Vdc	15	.047MKP1-250
0.047µF	630Vdc	15	.047MKP1-630
0.068µF	250Vdc	15	.068MKP1-250
0.068µF	630Vdc	15	.068MKP1-630
0.1µF	1000Vdc	22	.1MKP1-1000
0.1µF	400Vdc	15	.1MKP1-400
0.15µF	400Vdc	15	.15MKP1-400
0.15µF	630Vdc	22	.15MKP1-630
0.22µF	400Vdc	15	.22MKP1-400
0.22µF	630Vdc	22	.22MKP1-630
0.33µF	400Vdc	22	.33MKP1-400
0.33µF	630Vdc	27	.33MKP1-630
0.68µF	400Vdc	22	.68MKP1-400
1.0µF	400Vdc	22	1MKP1-400
1.5µF	400Vdc	27	1.5MKP1-400
2.2µF	400Vdc	27	2.2MKP1-400



METALISED POLYPROPYLENE MKP2

MKP-2 Series IEC384-16 / IEC68

European quality, pulse application, electronics ballast, snubber, SCR commuting circuits, high current.

Value	Volts	Pitch	Code
0.01µF	400Vdc	15mm	.01MKP2-400
0.1µF	250Vdc	15mm	.1MKP2-250
0.15µF	250Vdc	15mm	.15MKP2-250
0.15µF	400Vdc	15mm	.15MKP2-400
0.22µF	400Vdc	22mm	.22MKP2-400
0.33µF	400Vdc	22mm	.33MKP2-400



METALISED POLYPROPYLENE MKP-X2

CLASS X2 MAINS FILTER SAFETY CAPACITORS

Specifically suitable for interference suppression and across-the-line type filtering applications.

Value	Volts	Pitch	Code
0.0047	275Vac	15mm	.0047MKPX2-275
0.01µF	275Vac	15mm	.01MKPX2-275
0.022µF	275Vac	15mm	.022MKPX2-275
0.033µF	275Vac	15mm	.033MKPX2-275
0.047µF	275Vac	15mm	.047MKPX2-275
0.068µF	275Vac	15mm	.068MKPX2-275
0.1µF	275Vac	15mm	.1MKPX2-275
0.22µF	275Vac	15mm	.22MKPX2-275
0.22µF	275Vac	22mm	XGV.22
0.33µF	275Vac	15mm	.33MKPX2-275
0.33µF	275Vac	22mm	XGV.33
0.47µF	275Vac	22mm	.47MKPX2-275
0.47µF	275Vac	27mm	XGV.47
0.68µF	275Vac	27mm	.68MKPX2-275
1µF	275Vac	27mm	1MKPX2-275
2.2µF	275Vac	27mm	2.2MKPX2-275



METALISED POLYPROPYLENE MKP-Y2

Suppression Caps across mains & earth
5000Vac pulse 10mm pitch

Value	Volts	Pitch	Code
.0068µF	250Vac	10mm	.0068MKPY2-250
.022µF	250Vac	15mm	.022MKPY2-250



AC Motor Start

MOTOR START CHASSIS MOUNT

DUAL 6.35mm TAGS & INSULATED BOLT

Non-Inductive construction Self-Healing property. Flame-Retardant Plastic & Epoxy. High Moisture-Resistance. Temp -25°C to +85°C. Tolerance ±10%. Short term Over-V tolerant. Quality Assurance Premium production. As used in Air conditioners, etc. motor start, motor run, across line, and many other mains applications.



WTR WPR

Value	Volts	Type	Size	Code
1µF	450V	6.4mm	30x57mm	1WTR450
2µF	450V	6.4mm	30x57mm	2WTR450
2.5µF	450V	6.4mm	30x57mm	2.5WTR450
3µF	450V	6.4mm	30X57mm	3WTR450
3.5µF	450V	6.4mm	30x57mm	3.5WTR450
4.5µF	450V	6.4mm	33x68mm	4.5WTR450
5µF	450V	6.4mm	30x57mm	5WTR450
6µF	450V	6.4mm	33x65mm	6WTR450
7µF	450V	6.4mm	35x66mm	7WTR450
8µF	450V	6.4mm	35x65mm	8WTR450
10µF	450V	6.4mm	35x65mm	10WTR450
12µF	450V	6.4mm	40x70mm	12WTR450
14µF	450V	6.4mm	40x70mm	14WTR450
16µF	450V	6.4mm	35x65mm	16WTR450
18µF	450V	6.4mm	40x71mm	18WTR450
20µF	450V	6.4mm	40x77mm	20WTR450
25µF	450V	6.4mm	40x77mm	25WTR450
30µF	450V	6.4mm	45x95mm	30WTR450
35µF	450V	6.4mm	45x95mm	35WTR450
40µF	450V	6.4mm	50x106mm	40WTR450
50µF	450V	6.4mm	50x106mm	50WTR450
60µF	450V	6.4mm	50x110mm	60WTR450



WPR

Value	Volts	Type	Size	Code
2µF	450V	Fly Lead	30x57mm	2WPR450
20µF	450V	Fly Lead	40x77mm	20WPR450
25µF	450V	Fly Lead	40x77mm	25WPR450
30µF	450V	Fly Lead	45x97mm	30WPR450
35µF	450V	Fly Lead	45x95mm	35WPR450
50µF	450V	Fly Lead	50x107mm	50WPR450

MOTOR CAPACITOR 5 TAPS

- Insulated chassis mount with 5x Pins 6.5mm Tags.
- As used in white goods for motors & noise suppression, etc.
- 0.47µF + 2x 4700pF + 2x1mH + 680kΩ
- 16A 275Vac
- Size: 72x35mmØ

Code
LB06B





AC Motor Start

MOTOR START VERTICAL MOUNT

POLYPROPYLENE FILM - 4.3mm TERMINALS

As used in air conditioners, etc.
motor start, motor run, across line,
and many other GP applications.

- Insulated mounting
- Non-Inductive construction
- Self-Healing property
- Flame-Retardant Plastic & Epoxy
- High Moisture-Resistance
- Temp -25°C to +85°C
- Tolerance ±5%
- Short term Over-V tolerant
- Quality Assurance
- Premium production



Value	Voltage	WxHxDmm	Code
1.5μF	450Vac	37x26x15	1.5SML450
1.8μF	450Vac	37x27x16	1.8SML450
2.0μF	250Vac	34x24x14	2SML250
2.0μF	250Vac	34x24x14**	2SML250W
2.0μF	350Vac	38x24x12	2SML350
2.0μF	400Vac	38x26x14	2SML400
2.0μF	450Vac	38x27x15	2SML450
3.0μF	250Vac	34x24x14	3SML250
3.0μF	350Vac	38x26x14	3SML350
3.0μF	400Vac	38x30x17	3SML400
3.0μF	450Vac	38x30x20	3SML450
4.0μF	250Vac	38x24x12	4SML250
4.0μF	350Vac	38x29x16	4SML350
4.0μF	400Vac	38x30x20	4SML400
4.0μF	450Vac	38x35x23	4SML450
5.0μF	250Vac	38x32x20	5SML250
5.0μF	350Vac	38x32x20	5SML350
5.0μF	400Vac	38x34x21	5SML400
5.0μF	450Vac	38x37x25	5SML450
6.0μF	250Vac	38x27x15	6SML250
6.0μF	350Vac	38x32x20	6SML350
6.0μF	400Vac	38x35x23	6SML400
6.0μF	450Vac	46x37x25	6SML450
8.0μF	250Vac	38x30x17	8SML250
8.0μF	350Vac	38x35x23	8SML350
8.0μF	450Vac	46x39x27	8SML450
9.0μF	500Vac	59x32x47**	9SML500W
10μF	250Vac	38x30x20	10SML250
10μF	350Vac	38x37x25	10SML350
10μF	400Vac	46x39x27	10SML400
10μF	450Vac	60x39x28	10SML450
20μF	250Vac	46x37x25	20SML250
20μF	350Vac	60x39x28	20SML350
20μF	450Vac	60x54x39	20SML450
25μF	250Vac	46x39x27	25SML250
30μF	250Vac	60x40x28	30SML250
30μF	350Vac	60x48x34	30SML350
40μF	250Vac	60x48x34	40SML250

HIGH VOLTAGE CAPACITORS AS USED IN MICROWAVE OVENS

Metal can type replacement capacitors to suit microwave ovens.
53mm(W) x 33mm (D) x (H).

Value	Voltage	Height	TAB.	Code
0.60μF	2100	85	6.3mm	MWC601
0.71μF	2100	80	6.3mm	MWC71
0.86μF	2100	70	6.3mm	MWC86
0.91μF	2350	100	6.3mm	MWC604
0.95μF	2100	75	6.3mm	MWC613
1.00μF	2100	90	6.3mm	MWC614
1.05μF	2100	90	6.3mm	MWC615
1.07μF	2100	75	6.3mm	MWC631
1.10μF	2100	80	6.3mm	MWC616
1.13μF	2100	90	6.3mm	MWC628
1.14μF	2100	90	4.6mm	MWC114-4
1.14μF	2100	79	6.3mm	MWC114-6



MOTOR START HORIZONTAL MOUNT

POLYPROPYLENE FILM - 4.3mm TERMINALS

As used in air conditioners, etc.
motor start, motor run, across line,
and many other GP applications.



Value	Volts	WxHxDmm	Code
2.0μF	250Vac	33x20x12	2SMF250
2.0μF	350Vac	38x24x13	2SMF350
2.0μF	400Vac	38x25x14	2SMF400
2.0μF	450Vac	38x28x16	2SMF450
3.0μF	250Vac	33x24x14	3SMF250
3.0μF	350Vac	38x25x14	3SMF350
3.0μF	450Vac	38x30x21	3SMF450
4.0μF	250Vac	38x24x13	4SMF250
4.0μF	350Vac	38x28x16	4SMF350
4.0μF	400Vac	38x30x20	4SMF400
4.0μF	450Vac	38x35x22	4SMF450
5.0μF	250Vac	38x28x13	5SMF250
5.0μF	400Vac	38x30x21	5SMF400
5.0μF	450Vac	38x36x25	5SMF450
6.0μF	250Vac	38x28x16	6SMF250
6.0μF	350Vac	38x30x21	6SMF350
6.0μF	400Vac	38x35x23	6SMF400
6.0μF	450Vac	46x37x25	6SMF450
8.0μF	250Vac	38x30x20	8SMF250
8.0μF	350Vac	38x35x22	8SMF350
8.0μF	400Vac	46x37x25	8SMF400
8.0μF	450Vac	46x39x27	8SMF450
10μF	250Vac	38x30x20	10SMF250
10μF	350Vac	38x36x25	10SMF350
10μF	400Vac	46x39x27	10SMF400
20μF	250Vac	46x37x27	20SMF250

MOTOR START CYLINDER TYPE

POLYPROPYLENE FILM - WIRE TERMINALS



Value	Volts	DxHxmm	Code
2.0μF	500Vac	25x40	2SMR500
2.5μF	500Vac	25x40	2.5SMR500
3.1μF	450Vac	25x40	3.1SMR450
3.2μF	450Vac	25x40	3.2SMR450
5.0μF	450Vac	25x40	5SMR450
6.0μF	450Vac	30x40	6SMR450
8.0μF	450Vac	36x62	8SMR450
10μF	250Vac	31x41	10SMR250
10μF	350Vac	30x40	10SMR350
10μF	400Vac	36x62	10SMR400
16μF	450Vac	40x60	16SMR450
20μF	250Vac	36x53	20SMR250
20μF	350Vac	36x62	20SMR350
20μF	400Vac	41x61	20SMR400
20μF	450Vac	50x90	20SMR450
25μF	250Vac	36x62	25SMR250
25μF	350Vac	41x61	25SMR350
25μF	400Vac	46x77	25SMR400
30μF	250Vac	36x62	30SMR250
30μF	350Vac	41x61	30SMR350
30μF	400Vac	46x77	30SMR400
30μF	450Vac	45x89	30SMR450
36μF	450Vac	45x89	36SMR450
40μF	250Vac	41x61	40SMR250
40μF	350Vac	46x77	40SMR350
40μF	400Vac	52x90	40SMR400
60μF	250Vac	50x125	60SMR250
60μF	350Vac	52x90	60SMR350
60μF	400Vac	50x125	60SMR400
100μF	350Vac	52x115	100SMR350



Electronic Components

□ Electrolytic Radial

TK-R ELECTROLYTIC 105C

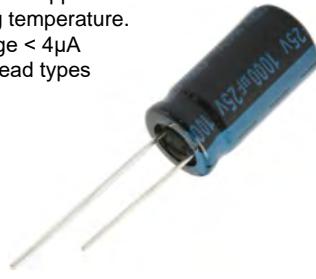
Higher quality capacitors for precision applications

-55°C +105°C Long-Life Operating temperature.

Rated Tolerance 20%. Low Leakage < 4µA

TKR Capacitors are the RADIAL Lead types

SIZES: Sizes quoted here
are as per supplier. Actual
sizes may vary or change
with stock.



Value	Volts	Size	Code
.1µf	100v	5x11	.1TKR100
.22µf	100v	5x11	.22TKR100
.47µf	63v	5x11	.47TKR63
.47µf	100v	5x11	.47TKR100
.47µf	250v	6.3x11	.47TKR250
.47µf	400v	8x11	.47TKR400
1µf	63v	5x11	1TKR63
1µf	100v	5x11	1TKR100
1µf	160v	5x11	1TKR160
1µf	350v	8x11	1TKR350
1µf	400v	8x11	1TKR400
1µf	450v	10x13	1TKR450
2.2µf	63v	5x11	2.2TKR63
2.2µf	100v	5x11	2.2TKR100
2.2µf	200v	6.3x11	2.2TKR200
2.2µf	250v	6.3x11	2.2TKR250
2.2µf	350v	8x11	2.2TKR350
2.2µf	400v	10x13	2.2TKR400
2.2µf	450v	13x21	2.2TKR450
3.3µf	25v	5x11	3.3TKR25
3.3µf	63v	5x11	3.3TKR63
3.3µf	100v	5x11	3.3TKR100
3.3µf	200v	6.3x11	3.3TKR200
3.3µf	250v	8x11	3.3TKR250
3.3µf	400v	10x13	3.3TKR400
3.3µf	450v	13x21	3.3TKR450
4.7µf	25v	5x11	4.7TKR25
4.7µf	63v	5x11	4.7TKR63
4.7µf	100v	5x11	4.7TKR100
4.7µf	160v	6.3x11	4.7TKR160
4.7µf	250v	8x11	4.7TKR250
4.7µf	350v	10x13	4.7TKR350
4.7µf	400v	10x16	4.7TKR400
4.7µf	450v	13x21	4.7TKR450
6.8µf	63v	5x12	6.8TKR63
6.8µf	100v	6.3x12	6.8TKR100
6.8µf	160v	10x13	6.8TKR160
6.8µf	250v	10x13	6.8TKR250
6.8µf	400v	13x22	6.8TKR400
10µf	16v	5x11	10TKR16
10µf	25v	5x11	10TKR25
10µf	35v	5x11	10TKR35
10µf	63v	5x11	10TKR63
10µf	100v	6.3x11	10TKR100
10µf	160v	8x11	10TKR160
10µf	200v	10x13	10TKR200
10µf	250v	10x16	10TKR250
10µf	350v	10x21	10TKR350
10µf	400v	13x21	10TKR400
10µf	450v	16x25	10TKR450
22µf	16v	5x11	22TKR16
22µf	25v	5x11	22TKR25
22µf	35v	5x11	22TKR35
22µf	63v	5x11	22TKR63
22µf	100v	6.3x11	22TKR100
22µf	200v	10x21	22TKR200
22µf	250v	10x21	22TKR250
22µf	300v	13x26	22TKR350
22µf	400v	13x26	22TKR400
22µf	450v	16x32	22TKR450



Value	Volts	Size	Code
33µf	35v	5x11	33TKR35
33µf	63v	6.3x11	33TKR63
33µf	100v	8x11	33TKR100
33µf	160v	10x21	33TKR160
33µf	200v	13x21	33TKR200
33µf	250v	13x21	33TKR250
33µf	350v	16x25	33TKR350
33µf	400v	16x35	33TKR400
33µf	450v	18x35	33TKR450
47µf	16v	5x11	47TKR16
47µf	25v	5x11	47TKR25
47µf	35v	5x11	47TKR35
47µf	63v	6.3x11	47TKR63
47µf	100v	10x13	47TKR100
47µf	160v	13x21	47TKR160
47µf	200v	13x21	47TKR200
47µf	250v	13x26	47TKR250
47µf	350v	16x35	47TKR350
47µf	400v	18x35	47TKR400
47µf	400v	22x25	47HSW400
47µf	450v	16x30	47TKR450
56µf	16v	5x11	56TKR16
56µf	63v	8x12	56TKR63
56µf	400v	22x25	56HSW400
68µf	25v	5x11	68TKR25
68µf	35v	6.3x12	68TKR35
68µf	63v	10x13	68TKR63
68µf	160v	13x27	68TKR160
68µf	400v	16x36	68TKR400
68µf	450v	18x42	68TKR450
82µf	200v	16x25	82TKR200
82µf	400v	22x43	82TKR400
100µf	16v	5x11	100TKR16
100µf	25v	6.3x11	100TKR25
100µf	35v	6.3x11	100TKR35
100µf	63v	10x13	100TKR63
100µf	100v	10x21	100TKR100
100µf	160v	13x26	100TKR160
100µf	200v	16x25	100TKR200
100µf	250v	16x32	100TKR250
100µf	350v	18x42	100TKR350
100µf	400v	20x40	100TKR400
100µf	400v	25x25	100HSW400
100µf	450v	25x50	100TKR450
100µf	450v	22x35	100HSW450
120µf	400v	22x46	120TKR400
150µf	200v	22x32	150HSW200
150µf	400v	25x47	150TKR400
150µF	400v	30x25	150HSW400
150µf	450v	25x45	150HSW450
220µf	16v	6.3x11	220TKR16
220µf	25v	8x11	220TKR25
220µf	35v	8x11	220TKR35
220µf	63v	10x26	220TKR63
220µf	100v	13x25	220TKR100
220µf	160v	16x35	220TKR160
220µf	200v	18x42	220TKR200
220µf	200v	22x25	220HSW200
220µf	250v	18x43	220TKR250
220µf	400v	22x50	220TKR400
220µf	400v	30x35	220HSW400
220µf	450v	25x45	220HSW450
330µf	16v	8x11	330TKR16
330µf	25v	8x11	330TKR25
330µf	35v	10x13	330TKR35
330µf	63v	10x21	330TKR63
330µf	100v	13x26	330TKR100
330µf	160v	18x42	330TKR160
330µf	200v	18x43	330TKR200
330µf	200v	22x30	330HSW200
330µf	250v	22x50	330TKR250
330µf	400v	30x52	330HSW400





TK-R ELECTROLYTIC 105°C

Continued...

Value	Volts	Size	Code
470µf	16v	8x11	470TKR16
470µf	25v	10x13	470TKR25
470µf	35v	10x16	470TKR35
470µf	63v	13x21	470TKR63
470µf	100v	16x25	470TKR100
470µf	160v	22x40	470TKR160
470µf	200v	26x42	470TKR200
470µf	350v	35x46	470HSW350
470µf	450v	35x52	470HSW450
560µf	200v	25x35	560HSW200
680µf	16v	10x13	680TKR16
680µf	25v	10x21	680TKR25
680µf	63v	16x33	680TKR63
680µf	200v	30x30	680HSW200
680µf	250v	35x30	680HSW250
820µf	250v	30x36	820HSW250
1000µf	6v	8x11	1000TKR6
1000µf	10v	10x20	1000TKR10
1000µf	16v	10x16	1000TKR16
1000µf	25v	10x21	1000TKR25
1000µf	35v	13x21	1000TKR35
1000µf	100v	18x42	1000TKR100
1000µf	63v	16x25	1000TKR63
1000µf	100v	26x45	1000HSW100
1000µf	200v	30x41	1000HSW200
1000µf	250v	30x45	1000HSW250
1200µf	35v	13x25	1200TKR35
1500µf	35v	16x30	1500TKR35
1500µf	200v	35x46	1500HSW200
1800µf	35v	16x25	1800TKR35
2200µf	6v	10x16	2200TKR6
2200µf	10v	10x16	2200TKR10
2200µf	16v	13x21	2200TKR16
2200µf	25v	13x26	2200TKR25
2200µf	35v	16x25	2200TKR35
2200µf	63v	22x34	2200TKR63
2200µf	63v	25x30	2200HSW63
2200µf	100v	30x36	2200HSW100
3300µf	10v	13x21	3300TKR10
3300µf	16v	16x25	3300TKR16
3300µf	25v	16x25	3300TKR25
3300µf	35v	16x35	3300TKR35
3300µf	63v	25x51	3300HSW63
4700µf	6v	13x21	4700TKR6
4700µf	25v	16x32	4700TKR25
4700µf	35v	18x35	4700TKR35
4700µf	63v	25x49	4700TKR63
4700µf	100v	30x52	4700HSW100
6800µf	10v	12x25	6800TKR10
6800µf	16v	16x32	6800TKR16
6800µf	25v	18x35	6800TKR25
6800µf	35v	22x45	6800TKR35
6800µf	63v	30x45	6800HSW63
10,000µf	6.3v	16x25	10000TKR6.3
10,000µf	16v	18x35	10000TKR16
10,000µf	25v	22x40	10000TKR25
10,000µf	25v	25x51	10000HSW25
10,000µf	35v	22x40	10000TKR35
10,000µf	35v	25x45	10000HSW35
10,000µf	63v	30x50*	10000HSW63
10,000µf	63v	35x41*	10000HSW63B
10,000µf	100v	35x72	10000HSW100
15,000µf	25v	25X45	15000HSW25
15,000µf	100v	51x90+	15000RPS100



HSW SERIES ELECTROLYTIC

"Snap-In" PCB type Electrolytic capacitors. 105°C
Rated Tolerance 20%.
Low Leakage < 4µA
Temperatures -40°C +105°C



Value	Volts	Size	Code
47µf	400v	22x25	47HSW400
56µf	400v	22x25	56HSW400
100µf	400v	25x25	100HSW400
100µf	450v	22x35	100HSW450
150µf	200v	22x32	150HSW200
150µF	400v	30x25	150HSW400
150µf	450v	25x45	150HSW450
220µf	200v	22x25	220HSW200
220µf	400v	30x35	220HSW400
220µf	450v	25x45	220HSW450
330µf	200v	22x30	330HSW200
330µf	400v	30x52	330HSW400
470µf	350v	35x46	470HSW350
470µf	450v	35x52	470HSW450
560µf	200v	25x35	560HSW200
680µf	200v	30x30	680HSW200
680µf	250v	35x30	680HSW250
820µf	250v	30x36	820HSW250
1000µf	100v	26x45	1000HSW100
1000µf	200v	30x41	1000HSW200
1000µf	250v	30x45	1000HSW250
1500µf	200v	35x46	1500HSW200
2200µf	63v	25x30	2200HSW63
2200µf	100v	30x36	2200HSW100
3300µf	63v	25x51	3300HSW63
4700µf	100v	30x52	4700HSW100
6800µf	63v	30x45	6800HSW63
10,000µf	25v	25x51	10000HSW25
10,000µf	35v	25x45	10000HSW35
10,000µf	63v	30x50*	10000HSW63
10,000µf	63v	35x41*	10000HSW63B
10,000µf	100v	35x72	10000HSW100
15,000µf	25v	25X45	15000HSW25
15,000µf	100v	51x90+	15000RPS100

LARGE VALUE POWER SUPPLY CAPACITORS

As used in audio amplifiers etc.

15,000µF 100Vdc SCREW TERMINALS

Value	Volts	Size	Code
15,000µf	100v	51x90+	15000RPS100



10,000µF RADIAL PCB SNAP-IN

Value	Volts	Size	Code
10,000µf	25v	25x51	10000HSW25
10,000µf	63v	30x50*	10000HSW63
10,000µf	100v	35x72	10000HSW100
10,000µf	35v	25x45	10000HSW35
10,000µf	63v	35x41*	10000HSW63B



CAPACITOR BRACKET

OPTIONAL MOUNTING CLAMP TO SUIT RADIAL CAPS

Capacitor mounting clamp to suit radial capacitors.

Diam.	Code
25mm	V-R125
30mm	V-R130
35mm	V-R135
40mm	V-R140





Electronic Components

□ Electrolytic Radial

LOW IMPEDANCE CAPACITOR EXR

SWITCH-MODE POWER SUPPLIES & HIGH FREQUENCY

Ideal for use in switching power supplies and other HF applications.
Low impedance and long service life at high working temperatures.
Temperature -55°C +105°C
Leakage Current < 4µA
Tolerance 20%

Value	Volts	Size	Code
2.2µf	100v	7x11	2.2EXR100
2.2µf	160v	7x11	2.2EXR160
3.3µf	160v	8x11	3.3EXR160
4.7µf	63v	5x11	4.7EXR63
4.7µf	100v	5x11	4.7EXR100
6.8µf	63v	5x11	6.8EXR63
6.8µf	100v	5x11	6.8EXR100
10µf	16v	5x11	10EXR16
10µf	25v	5x11	10EXR25
10µf	63v	5x11	10EXR63
10µf	100v	7x11	10EXR100
22µf	16v	5x11	22EXR16
22µf	25v	5x11	22EXR25
22µf	35v	5x11	22EXR35
22µf	50v	6x11	22EXR50
22µf	63v	6x11	22EXR63
22µf	100v	8x12	22EXR100
33µf	16v	5x11	33EXR16
33µf	25v	5x11	33EXR25
33µf	35v	6x11	33EXR35
33µf	50v	6x11	33EXR50
33µf	63v	6x11	33EXR63
33µf	100v	10x20	33EXR100
47µf	16v	5x11	47EXR16
47µf	25v	5x11	47EXR25
47µf	50v	6x11	47EXR50
47µf	63v	8x12	47EXR63
47µf	100v	10x16	47EXR100
68µf	16v	6x11	68EXR16
68µf	25v	6x11	68EXR25
68µf	35v	6x11	68EXR35
68µf	50v	8x12	68EXR50
68µf	63v	10x14	68EXR63
68µf	100v	10x20	68EXR100
100µf	10v	10x20	100EXR10
100µf	16v	6x11	100EXR16
100µf	25v	6x11	100EXR25
100µf	35v	8x12	100EXR35
100µf	50v	10x14	100EXR50
100µf	63v	10x16	100EXR63
100µf	100v	13x22	100EXR100
150µf	10v	6x11	150EXR10
150µf	25v	8x12	150EXR25
150µf	35v	10x12	150EXR35
150µf	50v	10x16	150EXR50
150µf	63v	10x20	150EXR63
150µf	100v	13x25	150EXR100



LONG LIFE ELECTROLYtic CAPACITOR

LOW IMPEDANCE, HIGH RELIABILITY

Value	Volts	Size	Code
1000µf	10V	9x14	1000TLR10
1500µf	16V	9x21	1500TLR16
3300µf	6.3V	9x29	3300TLR6.3

Low impedance electrolytic capacitor.
Long life with 5000 hours of load life.



Value	Volts	Size	Code
220µf	10v	6x11	220EXR10
220µf	16v	8x11	220EXR16
220µf	25v	8x12	220EXR25
220µf	35v	10x16	220EXR35
220µf	50v	10x20	220EXR50
220µf	63v	13x22	220EXR63
220µf	100v	16x27	220EXR100
330µf	10v	8x12	330EXR10
330µf	16v	8x12	330EXR16
330µf	25v	8x14	330EXR25
330µf	35v	10x20	330EXR35
330µf	50v	10x20	330EXR50
330µf	63v	13x22	330EXR63
330µf	100v	16x26	330EXR100
470µf	10v	8x11	470EXR10
470µf	16v	10x13	470EXR16
470µf	25v	10x16	470EXR25
470µf	35v	10x20	470EXR35
470µf	63v	13x25	470EXR63
470µf	100v	18x32	470EXR100
560µf	63v	13x25	560EXR63
680µf	10v	8x14	680EXR10
680µf	16v	10x16	680EXR16
680µf	25v	10x20	680EXR25
680µf	35v	13x22	680EXR35
680µf	50v	13x26	680EXR50
680µf	63v	16x27	680EXR63
680µf	100v	18x40	680EXR100
820µf	16v	10x16	820EXR16
820µf	25v	13x25	820EXR25
1000µf	10v	10x20	1000EXR10
1000µf	16v	10x20	1000EXR16
1000µf	25v	13x22	1000EXR25
1000µf	35v	13x25	1000EXR35
1000µf	50v	16x27	1000EXR50
1000µf	63v	16x32	1000EXR63
1500µf	10v	10x20	1500EXR10
1500µf	16v	13x21	1500EXR16
1500µf	25v	13x26	1500EXR25
1500µf	35v	16x27	1500EXR35
1500µf	50v	16x30	1500EXR50
1500µf	63v	18x33	1500EXR63
2200µf	10v	10x20	2200EXR10
2200µf	16v	13x22	2200EXR16
2200µf	25v	16x25	2200EXR25
2200µf	35v	16x32	2200EXR35
2200µf	50v	18x36	2200EXR50
2200µf	63v	18x40	2200EXR63
3300µf	10v	13x21	3300EXR10
3300µf	16v	16x27	3300EXR16
3300µf	25v	16x27	3300EXR25
3300µf	35v	18x36	3300EXR35
4700µf	10v	16x25	4700EXR10
4700µf	16v	16x32	4700EXR16

GOLD CAPS

BACKUP CAPACITORS

0.47F 5.5V

Code
GC.47



1.0F 5.5V

Code
GC1





Electrolytic Radial

TX ELECTROLYTIC HIGH-RIPPLE

HIGH RIPPLE CURRENT - LOW E.S.R. - HIGH RELIABILITY

High ripple current, high operating temperature, and long working life. The TX series is a low ESR (equivalent series resistance) designed for electronic ballast, adaptor and switching power, etc.

Temperature -40°C +105°C

Leakage Current < 10µA

Tolerance 20%

Surge +25% max. Rated V



Value	Volts	Size	Code
1µF	450	10x13	1TX450
2.2µF	250	8x11	2.2TX250
2.2µF	400	10x13	2.2TX400
2.2µF	450	10x16	2.2TX450
2.2µF	200	8x11	3.3TX200
3.3µF	350	10x13	3.3TX350
3.3µF	400	10x16	3.3TX400
3.3µF	450	10x21	3.3TX450
4.7µF	250	10x16	4.7TX250
4.7µF	400	10x21	4.7TX400
4.7µF	450	13x21	4.7TX450
10µF	400	10x26	10TX400
10µF	450	13x21	10TX450
22µF	200	10x21	22TX200
22µF	350	13x21	22TX350
22µF	400	13x26	22TX400
22µF	450	16x26	22TX450
33µF	350	13x26	33TX350
33µF	400	13x26	33TX400
33µF	450	16x32	33TX450
47µF	250	13x26	47TX250
47µF	400	16x25	47TX400
47µF	450	18x32	47TX450
68µF	400	16x32	68TX400
68µF	450	18x35	68TX450
100µF	250	16x32	100TX250
100µF	400	18x35	100TX400
150µF	200	16x32	150TX200
150µF	250	18x32	150TX250
220µF	160	16x32	220TX160
220µF	200	18x35	220TX200
220µF	250	18x40	220TX250

SS-R MINIATURE ELECTROLYTIC CAPACITORS

Developed for high density electronic equipment with max space efficiency.

Temperature -40 +85°C

Tolerance ±20% (120Hz 25°C)



Value	Volts	Size	Code
.22 µF	50v	4.2x7.5	.22SSR50
.33 µF	63v	4.2x7.5	.33SSR50
.47 µF	50v	4.2x7.5	.47SSR50
1 µF	50v	4.2x7.5	1SSR50
2.2 µF	50v	4.2x7.5	2.2SSR50
3.3 µF	63v	5.2x7.5	3.3SSR63
4.7 µF	50v	4.2x7.5	4.7SSR50
4.7 µF	63v	6.5x7.5	4.7SSR63
10 µF	16v	4.2x7.5	10SSR16
10 µF	35v	5.2x7.5	10SSR35
10 µF	50v	5.2x7.5	10SSR50
22 µF	16v	4.2x7.5	22SSR16
47 µF	10v	5.2x7.5	47SSR10
47 µF	16v	6.5x7.5	47SSR16
47 µF	25v	6.5x7.5	47SSR25
100 µF	16v	7.0x7.5	100SSR16

WL-R MINIATURE LOW-IMPEDANCE

Jamicon WL Series Radial. Developed for modern switch mode power supply applications. Very rugged design with lower impedance at high frequency and high ripple current, packaged in a small case.

Not suitable for audio.

Temperature -55°C to +105°C

Tolerance ±20% (120Hz 25°C)

Value	Volts	Size	Code
.47 µF	100v	5x12	.47WLR100
1 µF	100v	5x11	1WLR100
2.2 µF	100v	5x12	2.2WLR100
3.3 µF	100v	5x12	3.3WLR100
4.7 µF	100v	6.5x12	4.7WLR100
10 µF	35v	5x11	10WLR35
10 µF	63v	6.5x12	10WLR63
10 µF	100v	6x11	10WLR100
22 µF	35v	5x12	22WLR35
22 µF	63v	6.5x12	22WLR63
22 µF	100v	10x13	22WLR100
47 µF	35v	5x11	47WLR35
47 µF	63v	8x11	47WLR63
47 µF	100v	10x13	47WLR100
100 µF	16v	5x12	100WLR16
100 µF	25v	6.5x12	100WLR25
100 µF	35v	8x12	100WLR35
100 µF	63v	12.5	100WLR63
100 µF	100v	13x21	100WLR100
220 µF	16v	6.5x12	220WLR16
220 µF	25v	8x11	220WLR25
220 µF	63v	10x20	220WLR63
330 µF	25v	10x13	330WLR25
330 µF	35v	10x16	330WLR35
330 µF	63v	13x26	330WLR63
470 µF	16v	10x12	470WLR16
470 µF	25v	10x16	470WLR25
470 µF	35v	10x20	470WLR35
470 µF	63v	13x26	470WLR63
680 µF	25v	10x21	680WLR25
680 µF	35v	16x16	680WLR35
680 µF	63v	13x31	680WLR63
1000 µF	16v	10x20	1000WLR16
1000 µF	25v	10x26	1000WLR25
1000 µF	35v	13x26	1000WLR35
1000 µF	63v	16x26	1000WLR63
1200 µF	35v	16x22	1200WLR35
1500 µF	35v	16x25	1500WLR35
2200 µF	16v	13x26	2200WLR16
2200 µF	25v	16x26	2200WLR25
2200 µF	35v	16x32	2200WLR35
2200 µF	63v	18x42	2200WLR63
4700 µF	16v	16x32	4700WLR16
4700 µF	25v	18x36	4700WLR25



ELNA TONEREX ELECTROLYTIC FOR AUDIO

OPTIMISED FOR AUDIO APPLICATIONS

New Audio Grade Electrolytics made in Japan by Elna to replace the superceeded Cerafine range (EOL). They feature a specially treated paper dielectric and are designed specifically for audio applications to be neutral and transparent to any signal.

-40°C to +85°C



Value	Volts	Size	Pitch	Code
1uf	100Vdc	5x11	2mm	1ROB100
2.2uf	100Vdc	5x11	2mm	2.2ROB100
3.3uf	100Vdc	5x11	2mm	3.3ROB100
4.7uf	100Vdc	6.3x11	2.5mm	4.7ROB100
10uf	100Vdc	8x11.5	3.5mm	10ROB100
47uf	100Vdc	10x20	5mm	47ROB100
100uf	100Vdc	12.5x20	5mm	100ROB100



Electronic Components

□ Electrolytic Radial

METAL CAN DUAL CAPACITOR 50+50

50+50 μ F 250Vdc

LCR Brand made in UK PCB
Mount pins (3X). Plain Negative.
FAC/SD28D

Value	Volts	Size	Code
50 μ F+50 μ F	250V	40x30mmØ	100C250



METAL CAN DUAL CAPACITOR 225+25

25+225 μ F 385Vdc

LCR Brand made in UK PCB Mount pins (3X).
Plain Negative. FAC/SD29D

Value	Volts	Size	Code
225 μ F+25 μ F	385V	40x40mmØ	250C385



F&T DUAL VALUE RADIAL CAPACITOR

F&T direct replacement type caps,
dual value electrolytic aluminium
Premium quality made in Germany.



32+32 μ F 500V

Value	Volts	Size	Code
32 μ F+32 μ F	500V	52x35Ø	FT32X32

50+50 μ F 500Vdc

Value	Volts	Size	Code
50 μ F+50 μ F	500V	52x35Ø	FT50X50



100+100 μ F 500Vdc

Value	Volts	Size	Code
100 μ F+100 μ F	500V	66x35Ø	FT100X100



RADIAL ELECTROLYtic GOLD CAPS - TAD

RADIAL CAN SHAPE, HIGH TEMPERATURE ENDURANCE

Value	Volts	Size	Code
32uF	500V	60x25mmØ	V-32500R
47uF	500V	50x30mmØ	V-47500R
220uF	350V	60x35mmØ	V-220350R
32+16uF	500V	52x35mmØ	V-1632500R
32+32uF	500V	50x35mmØ	V-3232500R
50+50uF	500V	75x35mmØ	V-5050500R
100+100uF	500V	80x35mmØ	V-100100500R



□ Electrolytic Audio

F&T AXIAL CAPACITOR 100

100 μ F 450Vdc

Genuine Fischer & Tausche GmbH
metallised film foil aluminium capacitor.

Value	Volts	Size	Code
100 μ f	450v	50x25mmØ	100RT450



AXIAL ELECTROLYtic AUDIO CAPS - TAD

PREMIUM QUALITY, IMPROVES TONE
WITH FINEST DETAILS AND EXCELLENT
OVERTONE, MADE IN GERMANY

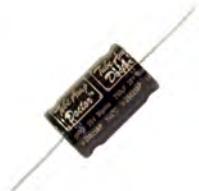
Value	Volts	Size	Code
20uF	550V	49x25mmØ	V-20550AL
70uF	350V	49x25mmØ	V-70350AL
220uF	350V	50x30mmØ	V-220350AL
25+25uF	25V	38x25mmØ	V-25-2525AL



AXIAL BIPOLAR ELECTROLYtic GOLD CAPS - TAD

BI-POLAR VOLTAGE AXIAL GOLD-CAPS
IMPROVED OVER-TONES & SONICS AUDIO
HIGH TEMPERATURE ENDURANCE

Value	Volts	Size	Code
25uF	25V	19x10mmØ	V-2525BP
250uF	25V	27x16mmØ	V-25025BP



AXIAL ELECTROLYtic GOLD CAPS - TAD

TAD Gold Caps in axial shape provide the entire range of
electrolytic capacitors which are used in all kind of tube amps.
These caps feature high temperature endurance (85°C or 105°C).

Value	Volts	Size	Temp.	Code
5uF	50V	13x5mmØ	105°C	V-550
8uF	475V	25x13mmØ	105°C	V-8475
16uF	475V	30x12mmØ	105°C	V-16475
22uF	500V	32x16mmØ	105°C	V-22500
25uF	25V	13x6.5mmØ	85°C	V-2525
33uF	500V	40x18mmØ	105°C	V-33500
47uF	500V	40x22mmØ	105°C	V-47500
50uF	100V	20x8mmØ	105°C	V-50100
70uF	350V	40x18mmØ	105°C	V-70350
80uF	100V	20x10mmØ	85°C	V-80100
80uF	450V	50x26mmØ	85°C	V-80450
100uF	350V	40x22mmØ	85°C	V-100350
100uF	500V	50x25mmØ	85°C	V-100500
220uF	350V	50x25mmØ	105°C	V-220350
15+15uF	450V	40x25mmØ	85°C	V-15-15450
33+33uF	450V	50x25mmØ	85°C	V-33-33450





□ Electrolytic Axial

AXIAL RT ELECTROLYTIC CAPACITORS

Axial lead terminated for horizontal mount on strip terminals, etc.



Value	Volts	Size	Code
.47µF	63v	14x6mmØ	.47RT63
1µF	63v	13x6mmØ	1RT63
1µF	100v	13x6mmØ	1RT100
2.2µF	63v	13x6mmØ	2.2RT63
4.7µF	63v	13x6mmØ	4.7RT63
10µF	63v	13x6mmØ	10RT63
22µF	63v	14x6mmØ	22RT63
33µF	25v	13x6mmØ	33RT25
33µF	35v	13x6mmØ	33RT35
33µF	63v	16x8mmØ	33RT63
47µF	25v	13x6mmØ	47RT25
47µF	63v	15x8mmØ	47RT63
100µF	16v	13x6mmØ	100RT16
100µF	25v	13x6mmØ	100RT25
100µF	63v	17x10mmØ	100RT63
100µF	450v	50x25mmØ	100RT450
220µF	25v	13x8mmØ	220RT25
220µF	63v	21x13mmØ	220RT63
330µF	25v	18x10mmØ	330RT25
470µF	16v	16x8mmØ	470RT16
470µF	35v	21x13mmØ	470RT35
470µF	63v	29x16mmØ	470RT63
1000µF	16v	21x10mmØ	1000RT16
1000µF	25v	21x13mmØ	1000RT25
1000µF	63v	31x16mmØ	1000RT63
2200µF	25v	25x13mmØ	2200RT25
2200µF	63v	40x20mmØ	2200RT63
4700µF	25v	33x18mmØ	4700RT25

ATOM - AXIAL ELECTROLYTIC CAPACITORS

TVA SERIES SPRAGUE - HIGH VOLTAGE

Sprague Type TVA Atom Aluminium Tubular Axial Electrolytic Capacitors. Excellent sonics For Tube Guitar Amps and audiophile Hi-Fi. These sturdy, axial lead, aluminium electrolytic capacitors are preferred by most craftsmen for authentic vintage guitar amp and hi-fi restorations. Many of the best sounding classic guitar amps by Fender, Ampeg, Magnatone, Valco and many others used Sprague Atom series electrolytics.

- Temperature -40°C +85°C
- Low Leakage Current
- Long Shelf Life



Value	Volts	Size	Code
8µF	150V	21x9mmØ	8ATM150
8µF	450V	44x12mmØ	8ATM450
10µF	150V	21x9mmØ	10ATM150
10µF	500V	42x19mmØ	10ATM500
16µF	475V	42x22mmØ	16ATM475
20µF	500V	54x22mmØ	20ATM500
20µF	600V	99x27mmØ	20ATM600
25µF	25V	13x6mmØ	25ATM25
25µF	50V	18x7mmØ	25ATM50
30µF	500V	41x25mmØ	30ATM500
40µF	500V	60x25mmØ	40ATM500
50µF	50V	21x8mmØ	50ATM50
80µF	450V	67x25mmØ	80ATM450
100µF	100V	38x11mmØ	100ATM100
100µF	350V	67x25mmØ	100ATM350
100µF	450V	79x32mmØ	100ATM450
250µF	25V	24x9mmØ	250ATM25

□ Electrolytic Axial Non-Polarised

NON POLARISED AXIAL ELECTROLYTIC

Axial lead terminated for horizontal mount.
As used in speaker cross-overs, etc.



Value	Volts	Size	Code
1µF	100V	8x17	1RY100
2.2µF	100V	8x17	2.2RY100
3.3µF	100V	8x19	3.3RY100
3.9µF	100V	8x19	3.9RY100
4.7µF	100V	8x19	4.7RY100
6.8µF	100V	10x19	6.8RY100
10µF	100V	10x19	10RY100
15µF	100V	10x19	15RY100
22µF	100V	10x24	22RY100
33µF	100V	13x27	33RY100
47µF	100V	13x27	47RY100
68µF	100V	16x34	68RY100
100µF	100V	16x34	100RY100
150µF	100V	16x34	150RY100
220µF	100V	18x40	220RY100
330µF	100V	18x40	330RY100
470µF	100V	22x50	470RY100

□ Electrolytic Radial Non-Polarised

NON POLARISED CAPACITORS

General purpose electrolytic capacitor for circuits with reversing polarity voltages.

- Temperature -40°C +105°C
- Tolerance 20%



Value	Volts	Size	Code
.47µF	100V	5x11	.47NP100
1µF	50V	5x11	1NP50
1µF	100V	5x11	1NP100
2.2µF	100V	5x11	2.2NP100
3.3µF	50V	5x11	3.3NP50
3.3µF	100V	6.3x11	3.3NP100
4.7µF	100V	8x12	4.7NP100
6.8µF	50V	6.3x11	6.8NP50
10µF	50V	6.3x11	10NP50
10µF	100V	8x12	10NP100
22µF	50V	8x12	22NP50
22µF	100V	10x16	22NP100
33µF	50V	8x12	33NP50
33µF	100V	10x21	33NP100
47µF	50V	8x12	47NP50
47µF	100V	13x21	47NP100
100µF	50V	10x16	100NP50
100µF	100V	16x26	100NP100
220µF	50V	13x21	220NP50
330µF	50V	16x26	330NP50
470µF	35V	13x26	470NP35
470µF	50V	16x32	470NP50

BI-POLAR CAPACITORS

RADIAL NON-POLARISED

BP series are wide frequency, high current types.



Value	Volts	Size	Code
2.2µF	63V	13x25	2.2BP63
3.3µF	63V	16x25	3.3BP63
4.7µF	63V	16x32	4.7BP63
6.8µF	63V	16x36	6.8BP63
10µF	63V	18x36	10BP63
15µF	63V	18x41	15BP63



Electronic Components

Inductors

Fixed Inductors

INDUCTORS RF CHOKES

Packaged 5 pieces per bag with header for easy identification.

Tolerance 10%

Lead Length 62mm

RFC1UH - RFC1MH

Size 10x4mmØ

RFC1.5MH+

Size 12x4mmØ



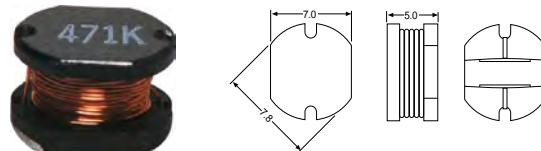
L	DCΩ	I _{max}	Pack of	Code
1.0μH	0.09	920mA	5	RFC1UH
1.5μH	0.23	830mA	5	RFC1.5UH
2.2μH	0.28	750mA	5	RFC2.2UH
3.3μH	0.34	670mA	5	RFC3.3UH
4.7μH	0.39	620mA	5	RFC4.7UH
6.8μH	0.48	550mA	5	RFC6.8UH
8.2μH	0.52	530mA	5	RFC8.2UH
10μH	0.58	500mA	5	RFC10UH
15μH	0.72	460mA	5	RFC15UH
22μH	0.84	410mA	5	RFC22UH
33μH	1.03	370mA	5	RFC33UH
47μH	1.22	340mA	5	RFC47UH
82μH	1.62	290mA	5	RFC82UH
100μH	1.80	275mA	5	RFC100UH
150μH	4.20	175mA	5	RFC150UH
220μH	5.10	155mA	5	RFC220UH
330μH	6.40	137mA	5	RFC330UH
470μH	7.70	126mA	5	RFC470UH
680μH	9.40	113mA	5	RFC680UH
1.0mH	17.0	100mA	5	RFC1MH
1.5mH	12.0	78mA	5	RFC1.5MH
2.5mH	25.0	58mA	5	RFC2.5MH
4.7mH	16.0	52mA	5	RFC4.7MH
10mH	75.0	30mA	5	RFC10MH

INDUCTORS SMD

PACK OF FIVE PIECES EACH

Ferrite core, wire wound, Surface Mount Device.

Tolerance 10%, Size 5x8mmØ ROHS



Value	I _{max}	DCΩ	Pack of	Code
10μH	2.3A	0.07	5	LCC-10
22μH	1.5A	0.11	5	LCC-22
33μH	1.2A	0.13	5	LCC-33
47μH	1.1A	0.18	5	LCC-47
100μH	0.72A	0.43	5	LCC-100
150μH	0.58A	0.64	5	LCC-150
220μH	0.49A	0.96	5	LCC-220
330μH	0.40A	1.26	5	LCC-330
470μH	0.34A	1.96	5	LCC-470

CAPACITANCE DECADE BOX

100pF to 11,111μF 100pF per step.

Size 147x117x51mm Yellow ABS.

Capacitors are 5% 50Vdc.

Code
CBOX406



RESISTANCE DECADE BOX

1 ohm step to 11,111,111 ohm. (10MΩ)

Resistors are 1% 0.3W carbon.

Code
RBOX408



INDUCTANCE DECADE BOX

10μH step 10μH to 111.1mH

Size 147x117x51mm Yellow ABS.

Values are ±5% at 1KHz/1V/10mA.

Code
LBOX405





Crossover Inductors

INDUCTORS CROSSOVER - SOLEN

S14 SERIES OFC AIR-CORE 14AWG 1.63mm

High grade, low-loss, pure 99.99% copper wire. Air-core. Very low Magneto-striction distortion. Induction value remains constant regardless of voltage and current variation. Low DCR. Low skin effect losses. Low proximity effect. Low self capacitance. No saturation. No hysteresis. High power. A premium grade component developed for the audiophile.

Tolerance Value $\pm 1\%$

Tolerance DCR (Ohms) $\pm 5\%$

Dimensions (mm) $\pm 10\%$

1.63mm O/D 14 AWG

Temperature -55 °C to +85 °C.

Insulation: 130 °C.

Solderable: 360 °C.

Voltage: 1000 VAC



Value	Ω	Size	Solen#	Code
.16mH	.07Ω	14x29x57 mm	S14.16	SOL0.16
.18mH	.08Ω	14x29x57 mm	S14.18	SOL0.18
.20mH	.08Ω	14x29x57 mm	S14.20	SOL0.20
.22mH	.09Ω	14x29x57 mm	S14.22	SOL0.22
.27mH	.10Ω	14x29x57 mm	S14.27	SOL0.27
.33mH	.11Ω	16x32x64 mm	S14.33	SOL0.33
.39mH	.12Ω	16x32x64 mm	S14.39	SOL0.39
.47mH	.13Ω	16x32x64 mm	S14.47	SOL0.47
.51mH	.14Ω	16x32x64 mm	S14.51	SOL0.51
.56mH	.15Ω	16x32x64 mm	S14.56	SOL0.56
.68mH	.17Ω	19x38x76 mm	S14.68	SOL0.68
.82mH	.19Ω	19x38x76 mm	S14.82	SOL0.82
1.0mH	.21Ω	19x38x76 mm	S141.0	SOL1.0
1.2mH	.24Ω	19x38x76 mm	S141.2	SOL1.2
1.5mH	.28Ω	19x38x76 mm	S141.5	SOL1.5
1.8mH	.30Ω	22x45x89 mm	S141.8	SOL1.8
2.2mH	.33Ω	22x45x89 mm	S142.2	SOL2.2
2.7mH	.39Ω	22x45x89 mm	S142.7	SOL2.7
3.0mH	.42Ω	22x45x89 mm	S143.0	SOL3.0
3.3mH	.45Ω	25x51x102 mm	S143.3	SOL3.3
3.9mH	.49Ω	25x51x102 mm	S143.9	SOL3.9
4.7mH	.56Ω	25x51x102 mm	S144.7	SOL4.7
5.1mH	.59Ω	25x51x102 mm	S145.1	SOL5.1
5.6mH	.63Ω	25x51x102 mm	S145.6	SOL5.6
6.8mH	.71Ω	32x64x127 mm	S146.8	SOL6.8
8.2mH	.79Ω	32x64x127 mm	S148.2	SOL8.2
10mH	.87Ω	32x64x127 mm	S1410	SOL10

INDUCTORS 1mm (18AWG) AIR-CORE 200Wrms

DAI-CHI PURE COPPER

High power up to 200 Watts RMS, quality, pure copper, solid core wire with insulation coating. Wound on a plastic bobbin with an empty core for better acoustic properties. Solder tipped ends.



INDUCTORS FOR CROSSOVER - DAYTON AUDIO

DAYTON PERFECT LAYER SERIES 300W RMS

Dayton Audio 18 gauge perfect layer wound air core inductors are an excellent choice for high quality crossover construction. Features fully annealed refined copper wire, baked enamel insulator and perfect layer construction. The thin enameled wire permits the tightest windings to minimize DCR and air core construction to ensure no hysteresis and saturation distortions. Perfect layer windings 300Wrms $\pm 3\%$ Tolerance

Value	Ω	Size	Code
0.05mH	0.1Ω	16x32mmØ	LW18-05
0.13mH	0.16Ω	12x37mmØ	LW18-13
0.15mH	0.08Ω	30x41mmØ	LW14-15
0.15mH	0.18Ω	13x37mmØ	LW18-15
0.1mH	0.14Ω	12x37mmØ	LW18-10
0.2mH	0.1Ω	28x44mmØ	LW14-20
0.2mH	0.21Ω	15x37mmØ	LW18-20
0.22mH	0.22Ω	16x38mmØ	LW18-22
0.24mH	0.11Ω	31x44mmØ	LW14-24
0.27mH	0.25Ω	15x39mmØ	LW18-27
0.3mH	0.13Ω	29x47mmØ	LW14-30
0.33mH	0.28Ω	17x39mmØ	LW18-33
0.4mH	0.15Ω	29x51mmØ	LW14-40
0.4mH	0.29Ω	16x41mmØ	LW18-40
0.5mH	0.33Ω	16x43mmØ	LW18-50
0.51mH	0.17Ω	29x53mmØ	LW14-51
0.6mH	0.19Ω	26x56mmØ	LW14-60
0.6mH	0.38Ω	17x44mmØ	LW18-60
0.7mH	0.21Ω	29x56mmØ	LW14-70
0.7mH	0.41Ω	17x45mmØ	LW18-70
0.8mH	0.22Ω	27x59mmØ	LW14-80

Value	Ω	Size	Code
0.8mH	0.44Ω	16x47mmØ	LW18-80
0.9mH	0.23Ω	30x59mmØ	LW14-90
0.9mH	0.48Ω	18x47mmØ	LW18-90
1.0mH	0.26Ω	32x59mmØ	LW141
1.0mH	0.51Ω	18x49mmØ	LW181
1.2mH	0.29Ω	30x61mmØ	LW141-2
1.5mH	0.32Ω	32x65mmØ	LW141-5
1.5mH	0.64Ω	19x49mmØ	LW181-5
2.0mH	0.38Ω	27x78mmØ	LW142
2.0mH	0.79Ω	25x49mmØ	LW182
2.5mH	0.43Ω	29x78mmØ	LW142-5
2.5mH	0.91Ω	26x51mmØ	LW182-5
3.0mH	1Ω	28x53mmØ	LW183
5.0mH	1.33Ω	28x57mmØ	LW185
5.5mH	1.47Ω	27x59mmØ	LW185-5
6.0mH	1.48Ω	27x61mmØ	LW186
7.0mH	1.62Ω	27x63mmØ	LW187
8.0mH	1.8Ω	29x63mmØ	LW188
9.0mH	2Ω	28x67mmØ	LW189
10mH	2.03Ω	27x69mmØ	LW1810





Electronic Components

Resistors Fixed Resistors

0.25W CARBON 5%

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1Ω	.25C1	10Ω	.25C10	100Ω	.25C100	1KΩ	.25C1K	10KΩ	.25C10K	100KΩ	.25C100K	1MΩ	.25C1M
1.2Ω	.25C1.2	12Ω	.25C12	120Ω	.25C120	1.2KΩ	.25C1.2K	12KΩ	.25C12K	120KΩ	.25C120K	1.2MΩ	.25C1.2M
1.5Ω	.25C1.5	15Ω	.25C15	150Ω	.25C150	1.5KΩ	.25C1.5K	15KΩ	.25C15K	150KΩ	.25C150K	1.5MΩ	.25C1.5M
1.8Ω	.25C1.8	18Ω	.25C18	180Ω	.25C180	1.8KΩ	.25C1.8K	18KΩ	.25C18K	180KΩ	.25C180K	1.8MΩ	.25C1.8M
2.2Ω	.25C2.2	22Ω	.25C22	220Ω	.25C220	2.2KΩ	.25C2.2K	22KΩ	.25C22K	220KΩ	.25C220K	2.2MΩ	.25C2.2M
2.7Ω	.25C2.7	27Ω	.25C27	270Ω	.25C270	2.7KΩ	.25C2.7K	27KΩ	.25C27K	270KΩ	.25C270K	2.7MΩ	.25C2.7M
3.3Ω	.25C3.3	33Ω	.25C33	330Ω	.25C330	3.3KΩ	.25C3.3K	33KΩ	.25C33K	330KΩ	.25C330K	3.3MΩ	.25C3.3M
3.9Ω	.25C3.9	39Ω	.25C39	390Ω	.25C390	3.9KΩ	.25C3.9K	39KΩ	.25C39K	390KΩ	.25C390K	3.9MΩ	.25C3.9M
4.7Ω	.25C4.7	47Ω	.25C47	470Ω	.25C470	4.7KΩ	.25C4.7K	47KΩ	.25C47K	470KΩ	.25C470K	4.7MΩ	.25C4.7M
5.6Ω	.25C5.6	56Ω	.25C56	560Ω	.25C560	5.6KΩ	.25C5.6K	56KΩ	.25C56K	560KΩ	.25C560K	5.6MΩ	.25C5.6M
6.8Ω	.25C6.8	68Ω	.25C68	680Ω	.25C680	6.8KΩ	.25C6.8K	62KΩ	.25C62K	680KΩ	.25C680K	6.8MΩ	.25C6.8M
8.2Ω	.25C8.2	82Ω	.25C82	820Ω	.25C820	8.2KΩ	.25C8.2K	68KΩ	.25C68K	820KΩ	.25C820K	8.2MΩ	.25C8.2M
								82KΩ	.25C82K			10MΩ	.25C10M



0.5W CARBON 5%

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
.68Ω	.5C.68	10Ω	.5C10	100Ω	.5C100	1KΩ	.5C1K	10KΩ	.5C10K	100KΩ	.5C100K	1MΩ	.5C1M
1Ω	.5C1	12Ω	.5C12	120Ω	.5C120	1.2KΩ	.5C1.2K	12KΩ	.5C12K	120KΩ	.5C120K	1.2MΩ	.5C1.2M
1.2Ω	.5C1.2	15Ω	.5C15	150Ω	.5C150	1.5KΩ	.5C1.5K	15KΩ	.5C15K	150KΩ	.5C150K	1.5MΩ	.5C1.5M
1.5Ω	.5C1.5	18Ω	.5C18	180Ω	.5C180	1.8KΩ	.5C1.8K	18KΩ	.5C18K	180KΩ	.5C180K	1.8MΩ	.5C1.8M
1.8Ω	.5C1.8	22Ω	.5C22	220Ω	.5C220	2.2KΩ	.5C2.2K	22KΩ	.5C22K	220KΩ	.5C220K	2.2MΩ	.5C2.2M
2.2Ω	.5C2.2	27Ω	.5C27	270Ω	.5C270	2.7KΩ	.5C2.7K	27KΩ	.5C27K	270KΩ	.5C270K	2.7MΩ	.5C2.7M
2.7Ω	.5C2.7	33Ω	.5C33	330Ω	.5C330	3.3KΩ	.5C3.3K	33KΩ	.5C33K	330KΩ	.5C330K	3.3MΩ	.5C3.3M
3.3Ω	.5C3.3	39Ω	.5C39	390Ω	.5C390	3.9KΩ	.5C3.9K	39KΩ	.5C39K	390KΩ	.5C390K	3.9MΩ	.5C3.9M
3.9Ω	.5C3.9	47Ω	.5C47	470Ω	.5C470	4.7KΩ	.5C4.7K	47KΩ	.5C47K	470KΩ	.5C470K	4.7MΩ	.5C4.7M
4.7Ω	.5C4.7	56Ω	.5C56	560Ω	.5C560	5.6KΩ	.5C5.6K	56KΩ	.5C56K	560KΩ	.5C560K	5.6MΩ	.5C5.6M
5.6Ω	.5C5.6	68Ω	.5C68	680Ω	.5C680	6.8KΩ	.5C6.8K	62KΩ	.5C62K	680KΩ	.5C680K	6.8MΩ	.5C6.8M
6.8Ω	.5C6.8	82Ω	.5C82	820Ω	.5C820	8.2KΩ	.5C8.2K	68KΩ	.5C68K	820KΩ	.5C820K	8.2MΩ	.5C8.2M
8.2Ω	.5C8.2							82KΩ	.5C82K			10MΩ	.5C10M



1W CARBON 5%

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1Ω	1C1	10Ω	1C10	100Ω	1C100	1KΩ	1C1K	10KΩ	1C10K	100KΩ	1C100K	1MΩ	1C1M
1.2Ω	1C1.2	12Ω	1C12	120Ω	1C120	1.2KΩ	1C1.2K	12KΩ	1C12K	120KΩ	1C120K	1.2MΩ	1C1.2M
1.5Ω	1C1.5	15Ω	1C15	150Ω	1C150	1.5KΩ	1C1.5K	15KΩ	1C15K	150KΩ	1C150K	1.5MΩ	1C1.5M
1.8Ω	1C1.8	18Ω	1C18	180Ω	1C180	1.8KΩ	1C1.8K	18KΩ	1C18K	180KΩ	1C180K	1.8MΩ	1C1.8M
2.2Ω	1C2.2	22Ω	1C22	220Ω	1C220	2.2KΩ	1C2.2K	22KΩ	1C22K	220KΩ	1C220K	2.2MΩ	1C2.2M
2.7Ω	1C2.7	27Ω	1C27	270Ω	1C270	2.7KΩ	1C2.7K	27KΩ	1C27K	270KΩ	1C270K	2.7MΩ	1C2.7M
3.3Ω	1C3.3	33Ω	1C33	330Ω	1C330	3.3KΩ	1C3.3K	33KΩ	1C33K	330KΩ	1C330K	3.3MΩ	1C3.3M
3.9Ω	1C3.9	39Ω	1C39	390Ω	1C390	3.9KΩ	1C3.9K	39KΩ	1C39K	390KΩ	1C390K	3.9MΩ	1C3.9M
4.7Ω	1C4.7	47Ω	1C47	470Ω	1C470	4.7KΩ	1C4.7K	47KΩ	1C47K	470KΩ	1C470K	4.7MΩ	1C4.7M
5.6Ω	1C5.6	56Ω	1C56	560Ω	1C560	5.6KΩ	1C5.6K	56KΩ	1C56K	560KΩ	1C560K	5.6MΩ	1C5.6M
6.8Ω	1C6.8	68Ω	1C68	680Ω	1C680	6.8KΩ	1C6.8K	68KΩ	1C68K	680KΩ	1C680K	6.8MΩ	1C6.8M
8.2Ω	1C8.2	82Ω	1C82	820Ω	1C820	8.2KΩ	1C8.2K	82KΩ	1C82K	820KΩ	1C820K	8.2MΩ	1C8.2M
												10MΩ	1C10M



0.4W METAL OXIDE FILM 5%

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1Ω	.4M1	10Ω	.4M10	100Ω	.4M100	1.0KΩ	.4M1K	10KΩ	.4M10K	100KΩ	.4M100K	1MΩ	.4M1M
1.2Ω	.4M1.2	12Ω	.4M12	120Ω	.4M120	1.2KΩ	.4M1.2K	11KΩ	.5M11K	120KΩ	.4M120K	1.2MΩ	.4M1.2M
1.5Ω	.4M1.5	15Ω	.4M15	150Ω	.4M150	1.3KΩ	.5M1.3K	12KΩ	.4M12K	150KΩ	.4M150K	1.5MΩ	.4M1.5M
1.8Ω	.4M1.8	18Ω	.4M18	180Ω	.4M180	1.5KΩ	.4M1.5K	15KΩ	.4M15K	180KΩ	.4M180K	1.8MΩ	.4M1.8M
2.2Ω	.4M2.2	20Ω	.4M20	220Ω	.4M220	1.8KΩ	.4M1.8K	18KΩ	.4M18K	200KΩ	.4M200K	2.2MΩ	.4M2.2M
2.7Ω	.4M2.7	22Ω	.4M22	270Ω	.4M270	2.0KΩ	.4M2K	20KΩ	.4M20K	220KΩ	.4M220K	2.7MΩ	.4M2.7M
3.3Ω	.4M3.3	24Ω	.4M24	330Ω	.4M330	2.2KΩ	.4M2.2K	22KΩ	.4M22K	270KΩ	.4M270K	3.3MΩ	.4M3.3M
3.9Ω	.4M3.9	27Ω	.4M27	390Ω	.4M390	2.4KΩ	.4M2.4K	24KΩ	.5M24K	330KΩ	.4M330K	3.9MΩ	.4M3.9M
4.7Ω	.4M4.7	33Ω	.4M33	470Ω	.4M470	2.7KΩ	.4M2.7K	27KΩ	.4M27K	360KΩ	.4M360K	4.7MΩ	.4M4.7M
5.6Ω	.4M5.6	39Ω	.4M39	560Ω	.4M560	3.3KΩ	.4M3.3K	33KΩ	.4M33K	390KΩ	.4M390K	5.6MΩ	.4M5.6M
6.8Ω	.4M6.8	47Ω	.4M47	680Ω	.4M680	3.9KΩ	.4M3.9K	39KΩ	.4M39K	470KΩ	.4M470K	6.8MΩ	.4M6.8M
8.2Ω	.4M8.2	56Ω	.4M56	820Ω	.4M820	4.7KΩ	.4M4.7K	47KΩ	.4M47K	560KΩ	.4M560K	8.2MΩ	.4M8.2M
		68Ω	.4M68			5.6KΩ	.4M5.6K	56KΩ	.4M56K	680KΩ	.4M680K		
		82Ω	.4M82			6.8KΩ	.4M6.8K	68KΩ	.4M68K	820KΩ	.4M820K		
						8.2KΩ	.4M8.2K					10MΩ	.4M10M





2W METAL OXIDE FILM 5%

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1.0Ω	2M1	10Ω	2M10	100Ω	2M100	1.0KΩ	2M1K	10KΩ	2M10K	100KΩ	2M100K	Metal Film.	High quality,
1.2Ω	2M1.2	12Ω	2M12	120Ω	2M120	1.2KΩ	2M1.2K	12KΩ	2M12K	120KΩ	2M120K		Low noise,
1.5Ω	2M1.5	15Ω	2M15	150Ω	2M150	1.5KΩ	2M1.5K	15KΩ	2M15K	150KΩ	2M150K		Low drift.
1.8Ω	2M1.8	18Ω	2M18	180Ω	2M180	1.8KΩ	2M1.8K	18KΩ	2M18K	180KΩ	2M180K		2 Watt
2.2Ω	2M2.2	22Ω	2M22	220Ω	2M220	2.2KΩ	2M2.2K	22KΩ	2M22K	220KΩ	2M220K		5% Tolerance.
2.7Ω	2M2.7	27Ω	2M27	270Ω	2M270	2.7KΩ	2M2.7K	27KΩ	2M27K	270KΩ	2M270K		
3.3Ω	2M3.3	33Ω	2M33	330Ω	2M330	3.3KΩ	2M3.3K	33KΩ	2M33K	330KΩ	2M330K		
3.9Ω	2M3.9	39Ω	2M39	390Ω	2M390	3.9KΩ	2M3.9K	39KΩ	2M39K	390KΩ	2M390K		
4.7Ω	2M4.7	47Ω	2M47	470Ω	2M470	4.7KΩ	2M4.7K	47KΩ	2M47K	470KΩ	2M470K		
5.6Ω	2M5.6	56Ω	2M56	560Ω	2M560	5.6KΩ	2M5.6K	56KΩ	2M56K	560KΩ	2M560K		
6.8Ω	2M6.8	68Ω	2M68	680Ω	2M680	6.8KΩ	2M6.8K	68KΩ	2M68K	680KΩ	2M680K		
8.2Ω	2M8.2	82Ω	2M82	820Ω	2M820	8.2KΩ	2M8.2K	82KΩ	2M82K	820KΩ	2M820K		
		91Ω	2M91							1MΩ	2M1M		



0.5W FUSIBLE RESISTORS

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	
0.1Ω	.5F.1	1Ω	.5F1	10Ω	.5F10	100Ω	.5F100	1KΩ	.5F1K	As used in power supplies, etc.		
0.12Ω	.5F.12	1.2Ω	.5F1.2	12Ω	.5F12	120Ω	.5F120	1.2KΩ	.5F1.2K	½W Fusible, for safety, goes		
0.15Ω	.5F.15	1.5Ω	.5F1.5	15Ω	.5F15	150Ω	.5F150	1.5KΩ	.5F1.5K	open when wattage exceeded.		
0.18Ω	.5F.18	1.8Ω	.5F1.8	18Ω	.5F18	180Ω	.5F180	1.8KΩ	.5F1.8K	5% Tolerance.		
0.22Ω	.5F.22	2.2Ω	.5F2.2	22Ω	.5F22	220Ω	.5F220	2.2KΩ	.5F2.2K			
0.27Ω	.5F.27	2.7Ω	.5F2.7	27Ω	.5F27	270Ω	.5F270	2.7KΩ	.5F2.7K			
0.33Ω	.5F.33	3.3Ω	.5F3.3	33Ω	.5F33	330Ω	.5F330	3.3KΩ	.5F3.3K			
0.39Ω	.5F.39	3.9Ω	.5F3.9	39Ω	.5F39	390Ω	.5F390	3.9KΩ	.5F3.9K			
0.47Ω	.5F.47	4.7Ω	.5F4.7	47Ω	.5F47	470Ω	.5F470	4.7KΩ	.5F4.7K			
0.51Ω	.5F.51	5.6Ω	.5F5.6	56Ω	.5F56	560Ω	.5F560	6.8KΩ	.5F6.8K			
0.56Ω	.5F.56	6.8Ω	.5F6.8	68Ω	.5F68	680Ω	.5F680	8.2KΩ	.5F8.2K			
0.68Ω	.5F.68	8.2Ω	.5F8.2	82Ω	.5F82	820Ω	.5F820	10KΩ	.5F10K			
0.82Ω	.5F.82											



1W FUSIBLE RESISTORS

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	
0.1Ω	1F.1	1Ω	1F1	10Ω	1F10	100Ω	1F100	1KΩ	1F1K	As used in power supplies, etc.		
0.12Ω	1F.12	1.2Ω	1F1.2	12Ω	1F12	120Ω	1F120	1.2KΩ	1F1.2K	1W Fusible, for safety, goes		
0.15Ω	1F.15	1.5Ω	1F1.5	15Ω	1F15	150Ω	1F150	1.5KΩ	1F1.5K	open when wattage exceeded.		
0.18Ω	1F.18	1.8Ω	1F1.8	18Ω	1F18	180Ω	1F180	1.8KΩ	1F1.8K	5% Tolerance.		
0.22Ω	1F.22	2.2Ω	1F2.2	22Ω	1F22	220Ω	1F220	2.2KΩ	1F2.2K			
0.27Ω	1F.27	2.7Ω	1F2.7	27Ω	1F27	270Ω	1F270	2.7KΩ	1F2.7K			
0.33Ω	1F.33	3.3Ω	1F3.3	33Ω	1F33	330Ω	1F330	3.3KΩ	1F3.3K			
0.39Ω	1F.39	3.9Ω	1F3.9	39Ω	1F39	390Ω	1F390	3.9KΩ	1F3.9K			
0.47Ω	1F.47	4.7Ω	1F4.7	47Ω	1F47	470Ω	1F470	4.7KΩ	1F4.7K			
0.51Ω	1F.51	5.6Ω	1F5.6	56Ω	1F56	560Ω	1F560	6.8KΩ	1F6.8K			
0.56Ω	1F.56	6.8Ω	1F6.8	68Ω	1F68	680Ω	1F680	8.2KΩ	1F8.2K			
0.68Ω	1F.68	8.2Ω	1F8.2	82Ω	1F82	820Ω	1F820					
0.82Ω	1F.82											



2W FUSIBLE RESISTORS

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
.22Ω	2F.22	1Ω	2F1	10Ω	2F10	100Ω	2F100	1KΩ	2F1K	As used in power supplies, etc.	
.27Ω	2F.27	1.2Ω	2F1.2	12Ω	2F12	120Ω	2F120	1.2KΩ	2F1.2K	2W Fusible, for safety, goes	
.33Ω	2F.33	1.5Ω	2F1.5	15Ω	2F15	150Ω	2F150	1.5KΩ	2F1.5K	open when wattage exceeded.	
.39Ω	2F.39	1.8Ω	2F1.8	18Ω	2F18	180Ω	2F180	1.8KΩ	2F1.8K	5% Tolerance.	
.47Ω	2F.47	2.2Ω	2F2.2	22Ω	2F22	220Ω	2F220	2.2KΩ	2F2.2K		
.51Ω	2F.51	2.7Ω	2F2.7	27Ω	2F27	270Ω	2F270	2.7KΩ	2F2.7K		
.56Ω	2F.56	3.3Ω	2F3.3	33Ω	2F33	330Ω	2F330	3.3KΩ	2F3.3K		
.68Ω	2F.68	3.9Ω	2F3.9	39Ω	2F39	390Ω	2F390	3.9KΩ	2F3.9K		
.82Ω	2F.82	4.7Ω	2F4.7	47Ω	2F47	470Ω	2F470	4.7KΩ	2F4.7K		
		5.6Ω	2F5.6	56Ω	2F56	560Ω	2F560	6.8Ω	2F6.8		
		6.8Ω	2F6.8	68Ω	2F68	680Ω	2F680	8.2Ω	2F8.2		
						820Ω	2F820	1KΩ	2F1K		



3W 5.6

3W Fusible Resistor

Code
3F5.6



Electronic Components

1W WIRE WOUND

Value	Code	Value	Code	Value	Code
0.1Ω	KNP.1	1Ω	KNP1	10Ω	KNP10
0.12Ω	KNP.12	1.2Ω	KNP1.2	12Ω	KNP12
0.15Ω	KNP.15	1.5Ω	KNP1.5	15Ω	KNP15
0.18Ω	KNP.18	1.8Ω	KNP1.8	18Ω	KNP18
0.22Ω	KNP.22	2.2Ω	KNP2.2	22Ω	KNP22
0.27Ω	KNP.27	2.7Ω	KNP2.7	27Ω	KNP27
0.33Ω	KNP.33	3.3Ω	KNP3.3	33Ω	KNP33
0.39Ω	KNP.39	3.9Ω	KNP3.9	39Ω	KNP39
0.47Ω	KNP.47	4.7Ω	KNP4.7	47Ω	KNP47
0.56Ω	KNP.56	5.6Ω	KNP5.6		
0.68Ω	KNP.68	6.8Ω	KNP6.8		
0.82Ω	KNP.82	8.2Ω	KNP8.2		

Low inductance type,
Power supplies, etc.
1W Wire Wound
5% Tolerance.



1W HIGH VOLTAGE RESISTORS

Value	Code
100kΩ	1FCR100K
150kΩ	1FCR150K
220kΩ	1FCR220K
270kΩ	1FCR270K
390kΩ	1FCR390K
470kΩ	1FCR470K
820kΩ	1FCR820K
1MΩ	1FCR1M
1.2MΩ	1FCR1.2M
1.5MΩ	1FCR1.5M
2.2MΩ	1FCR2.2M
3.3MΩ	1FCR3.3M
4.7MΩ	1FCR4.7M
5.1MΩ	1FCR5.1M
6.8MΩ	1FCR6.8M
8.2MΩ	1FCR8.2M

METAL FILM 5%
10KVdc 7KVac RMS
18x6.7mm, 24mm pitch



3W WIRE WOUND CERAMIC

Value	Code	Value	Code	Value	Code
.1Ω	3W.1	1Ω	3W1	10Ω	3W10
.12Ω	3W.12	1.2Ω	3W1.2	12Ω	3W12
.15Ω	3W.15	1.5Ω	3W1.5	15Ω	3W15
.18Ω	3W.18	1.8Ω	3W1.8	18Ω	3W18
0.22Ω	3W.22	2.2Ω	3W2.2	22Ω	3W22
0.27Ω	3W.27	2.7Ω	3W2.7	27Ω	3W27
0.33Ω	3W.33	3.3Ω	3W3.3	33Ω	3W33
0.39Ω	3W.39	3.9Ω	3W3.9	39Ω	3W39
0.47Ω	3W.47	4.7Ω	3W4.7	47Ω	3W47
0.56Ω	3W.56	5.6Ω	3W5.6	56Ω	3W56
0.68Ω	3W.68	6.8Ω	3W6.8	68Ω	3W68
0.82Ω	3W.82	8.2Ω	3W8.2	82Ω	3W82

Value	Code
1kΩ	3W1K
1.2kΩ	3W1.2K
1.5kΩ	3W1.5K
1.8kΩ	3W1.8K
2.2kΩ	3W2.2K
2.7kΩ	3W2.7K
27kΩ	3W27K
3.3kΩ	3W3.3K
3.9kΩ	3W3.9K
4.7kΩ	3W4.7K
5.6kΩ	3W5.6K
6.8kΩ	3W6.8K
8.2kΩ	3W8.2K

3W 10Ω

5W WIRE WOUND CERAMIC

Value	Code	Value	Code	Value	Code
0.1Ω	5W.1	1Ω	5W1	10Ω	5W10
0.12Ω	5W.12	1.2Ω	5W1.2	12Ω	5W12
0.15Ω	5W.15	1.5Ω	5W1.5	15Ω	5W15
0.18Ω	5W.18	1.8Ω	5W1.8	18Ω	5W18
0.22Ω	5W.22	2.2Ω	5W2.2	22Ω	5W22
0.27Ω	5W.27	2.7Ω	5W2.7	27Ω	5W27
0.33Ω	5W.33	3.3Ω	5W3.3	33Ω	5W33
0.39Ω	5W.39	3.9Ω	5W3.9	39Ω	5W39
0.4Ω	5W.4	4.7Ω	5W4.7	47Ω	5W47
0.47Ω	5W.47	5.1Ω	5W5.1	56Ω	5W56
0.51Ω	5W.51	5.6Ω	5W5.6	68Ω	5W68
0.56Ω	5W.56	6.8Ω	5W6.8	82Ω	5W82
0.68Ω	5W.68	8.2Ω	5W8.2		

22x10mm, 24mm pitch

5W 10KJ

10W WIRE WOUND CERAMIC

Value	Code	Value	Code	Value	Code
0.1Ω	10W.1	1Ω	10W1	10Ω	10W10
0.12Ω	10W.12	1.2Ω	10W1.2	12Ω	10W12
0.15Ω	10W.15	1.5Ω	10W1.5	15Ω	10W15
0.18Ω	10W.18	1.8Ω	10W1.8	18Ω	10W18
0.22Ω	10W.22	2.2Ω	10W2.2	22Ω	10W22
0.27Ω	10W.27	2.7Ω	10W2.7	27Ω	10W27
0.33Ω	10W.33	3.3Ω	10W3.3	33Ω	10W33
0.39Ω	10W.39	3.9Ω	10W3.9	39Ω	10W39
0.47Ω	10W.47	4.7Ω	10W4.7	47Ω	10W47
0.56Ω	10W.56	5.1Ω	10W5.1	56Ω	10W56
0.68Ω	10W.68	5.6Ω	10W5.6	68Ω	10W68
0.82Ω	10W.82	6.8Ω	10W6.8	82Ω	10W82
		8.2Ω	10W8.2		

55x10mm, 58mm pitch

10W10KJ



5W NON-INDUCTIVE WIRE WOUND

Value	Code	Value	Code	Value	Code
0.1Ω	5NLR.1	1Ω	5NLR1	10Ω	5NLR10
0.22Ω	5NLR.22	1.2Ω	5NLR1.2	12Ω	5NLR12
0.27Ω	5NLR.27	1.5Ω	5NLR1.5	15Ω	5NLR15
0.33Ω	5NLR.33	1.8Ω	5NLR1.8	18Ω	5NLR18
0.39Ω	5NLR.39	2.2Ω	5NLR2.2	22Ω	5NLR22
0.47Ω	5NLR.47	2.7Ω	5NLR2.7	27Ω	5NLR27
0.51Ω	5NLR.51	3.3Ω	5NLR3.3	33Ω	5NLR33
0.56Ω	5NLR.56	3.9Ω	5NLR3.9	39Ω	5NLR39
0.68Ω	5NLR.68	4.7Ω	5NLR4.7	47Ω	5NLR47
0.82Ω	5NLR.82	5.1Ω	5NLR5.1	56Ω	5NLR56
22x10mm, 24mm pitch		5.6Ω	5NLR5.6	68Ω	5NLR68
		6.8Ω	5NLR6.8	82Ω	5NLR82
		8.2Ω	5NLR8.2	100Ω	5NLR100

5W100ΩJN

7W WIRE WOUND CERAMIC

Value	Code	36x10mm, 20mm pitch, 15mm stand-off.
1.0Ω	7W1	As used in Amplifiers, etc.
1.5Ω	7W1.5	Price is for 1 piece.
2.2Ω	7W2.2	
2.7Ω	7W2.7	
3.3Ω	7W3.3	
3.9Ω	7W3.9	
4.7Ω	7W4.7	
5.6Ω	7W5.6	
6.8Ω	7W6.8	
8.2Ω	7W8.2	
10Ω	7W10	
39Ω	7W39	

Code*
7Wxx



0805 METAL FILM SMD

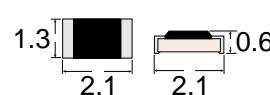
PACK OF 10 PIECES

High grade thick film metal glazed ceramic body
Suitable for reflow or hand soldering
Temperature range -55° to +125°C
Tolerance ±1%
2.1x1.3x0.6mm

1503

Value	Code	Value	Code	Value	Code
10Ω	RMA10	1KΩ	RMA1K	100KΩ	RMA100K
12Ω	RMA12	1.2KΩ	RMA1.2K	120KΩ	RMA120K
15Ω	RMA15	1.5KΩ	RMA1.5K	150KΩ	RMA150K
18Ω	RMA18	1.8KΩ	RMA1.8K	180KΩ	RMA180K
27Ω	RMA27	2.2KΩ	RMA2.2K	220KΩ	RMA220K
22Ω	RMA22	2.7KΩ	RMA2.7K	270KΩ	RMA270K
33Ω	RMA33	3.3KΩ	RMA3.3K	330KΩ	RMA330K
39Ω	RMA39	3.9KΩ	RMA3.9K	390KΩ	RMA390K
47Ω	RMA47	4.7KΩ	RMA4.7K	470KΩ	RMA470K
56Ω	RMA56	5.6KΩ	RMA5.6K	560KΩ	RMA560K
68Ω	RMA68	6.8KΩ	RMA6.8K	680KΩ	RMA680K
82Ω	RMA82	8.2KΩ	RMA8.2K	820KΩ	RMA820K
100Ω	RMA100	10KΩ	RMA10K	1MΩ	RMA1M
120Ω	RMA120	12KΩ	RMA12K		
150Ω	RMA150	15KΩ	RMA15K		
180Ω	RMA180	18KΩ	RMA18K		
220Ω	RMA220	22KΩ	RMA22K		
270Ω	RMA270	27KΩ	RMA27K		
330Ω	RMA330	33KΩ	RMA33K		
390Ω	RMA390	39KΩ	RMA39K		
470Ω	RMA470	47KΩ	RMA47K		
560Ω	RMA560	56KΩ	RMA56K		
680Ω	RMA680	68KΩ	RMA68K		
820Ω	RMA820	82KΩ	RMA82K		

RMA
[Pack of 10 Pieces]



10W NON-INDUCTIVE WIRE WOUND

Value	Code	Value	Code	Value	Code
0.1Ω	10NLR.1	1Ω	10NLR1	10Ω	10NLR10
0.22Ω	10NLR.22	1.2Ω	10NLR1.2	12Ω	10NLR12
0.27Ω	10NLR.27	1.5Ω	10NLR1.5	15Ω	10NLR15
0.33Ω	10NLR.33	1.8Ω	10NLR1.8	18Ω	10NLR18
0.39Ω	10NLR.39	2.2Ω	10NLR2.2	22Ω	10NLR22
0.47Ω	10NLR.47	2.7Ω	10NLR2.7	27Ω	10NLR27
0.51Ω	10NLR.51	3.3Ω	10NLR3.3	33Ω	10NLR33
0.56Ω	10NLR.56	3.9Ω	10NLR3.9	39Ω	10NLR39
0.68Ω	10NLR.68	4.7Ω	10NLR4.7	47Ω	10NLR47
0.82Ω	10NLR.82	5.1Ω	10NLR5.1	56Ω	10NLR56
22x10mm, 24mm pitch		5.6Ω	10NLR5.6	68Ω	10NLR68
		6.8Ω	10NLR6.8	82Ω	10NLR82
		8.2Ω	10NLR8.2		

HIGH POWER DUMMY LOADS

Non-Inductive load Resistors for testing amps, Power supplies, etc.

Power	Ohm	Size	Code
50W	4Ω	160x60x30mm	50W4
50W	8Ω	160x60x30mm	50W8
100W	4Ω	200x80x40mm	100W4
100W	8Ω	200x80x40mm	100W8



1206 METAL FILM SMD

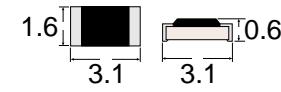
PACK OF 10 PIECES

High grade thick film metal glazed ceramic body
Suitable for reflow or hand soldering
Temperature range -55° to +125°C
Tolerance ±1%
3.1x1.6x0.6mm

1503

Value	Code	Value	Code	Value	Code
10Ω	RMB10	1KΩ	RMB1K	100KΩ	RMB100K
12Ω	RMB12	1.2KΩ	RMB1.2K	120KΩ	RMB120K
15Ω	RMB15	1.5KΩ	RMB1.5K	150KΩ	RMB150K
18Ω	RMB18	1.8KΩ	RMB1.8K	180KΩ	RMB180K
22Ω	RMB22	2.2KΩ	RMB2.2K	220KΩ	RMB220K
27Ω	RMB27	2.7KΩ	RMB2.7K	270KΩ	RMB270K
33Ω	RMB33	3.3KΩ	RMB3.3K	330KΩ	RMB330K
39Ω	RMB39	3.9KΩ	RMB3.9K	390KΩ	RMB390K
47Ω	RMB47	4.7KΩ	RMB4.7K	470KΩ	RMB470K
56Ω	RMB56	5.6KΩ	RMB5.6K	560KΩ	RMB560K
68Ω	RMB68	6.8KΩ	RMB6.8K	680KΩ	RMB680K
82Ω	RMB82	8.2KΩ	RMB8.2K	820KΩ	RMB820K
100Ω	RMB100	10KΩ	RMB10K	10KΩ	RMB1M
120Ω	RMB120	12KΩ	RMB12K		
150Ω	RMB150	15KΩ	RMB15K		
180Ω	RMB180	18KΩ	RMB18K		
220Ω	RMB220	22KΩ	RMB22K		
270Ω	RMB270	27KΩ	RMB27K		
330Ω	RMB330	33KΩ	RMB33K		
390Ω	RMB390	39KΩ	RMB39K		
470Ω	RMB470	47KΩ	RMB47K		
560Ω	RMB560	56KΩ	RMB56K		
680Ω	RMB680	68KΩ	RMB68K		
820Ω	RMB820	82KΩ	RMB82K		

RMB
[Pack of 10 Pieces]





Electronic Components

□ Variable Resistors

CARBON POTENTIOMETERS 0.25W LINEAR

LINEAR SOLDER LUGS

Type	Value	Code
Linear	1KΩ	VRC1KB
Linear	5KΩ	VRC5KB
Linear	10KΩ	VRC10KB
Linear	25KΩ	VRC25KB
Linear	50KΩ	VRC50KB
Linear	100KΩ	VRC100KB
Linear	500KΩ	VRC500KB
Linear	1MΩ	VRC1MB



CARBON POTENTIOMETERS 0.25W LINEAR

Type	Value	Code
Linear	500Ω	V24-500RB
Linear	1KΩ	V24-1KB
Linear	5KΩ	V24-5KB
Linear	10KΩ	V24-10KB
Linear	25KΩ	V24-25KB
Linear	50KΩ	V24-50KB
Linear	100KΩ	V24-100KB
Linear	250KΩ	V24-250KB
Linear	500KΩ	V24-500KB
Linear	1MΩ	V24-1MB



LINEAR PCB MOUNT

CARBON POTENTIOMETERS 0.25W DUAL LINEAR

LINEAR DUAL-GANG

Stereo Control Pots

Type	Value	Code
Linear	10KΩ	V24-10K2B
Linear	25KΩ	V24-25K2B
Linear	50KΩ	V24-50K2B
Linear	100KΩ	V24-100K2B



CARBON POTENTIOMETERS 0.25W LOG

LOGARITHMIC [Vol] SOLDER LUGS

Type	Value	Code
LOG	1KΩ	VRC1KA
LOG	5KΩ	VRC5KA
LOG	10KΩ	VRC10KA
LOG	25KΩ	VRC25KA
LOG	50KΩ	VRC50KA
LOG	100KΩ	VRC100KA
LOG	500KΩ	VRC500KA
LOG	1MΩ	VRC1MA



CARBON POTENTIOMETERS 0.25W LOG

LOGARITHMIC [Vol] PCB MOUNT

Type	Value	Code
LOG	1KΩ	V24-1KA
LOG	5KΩ	V24-5KA
LOG	10KΩ	V24-10KA
LOG	25KΩ	V24-25KA
LOG	50KΩ	V24-50KA
LOG	100KΩ	V24-100KA
LOG	250KΩ	V24-250KA
LOG	500KΩ	V24-500KA
LOG	1MΩ	V24-1MA



CARBON POTENTIOMETERS 0.25W DUAL LOG

LOGARITHMIC DUAL-GANG

Stereo Volume Control Pots

Type	Ω	Code
LOG	10KΩ	V24-10K2A
LOG	50KΩ	V24-50K2A
LOG	100KΩ	V24-100K2A



WIRE WOUND 500VDC 3W

Type	Value	Code
Linear	10Ω	VRW10
Linear	100Ω	VRW100
Linear	250Ω	VRW250
Linear	500Ω	VRW500



ALPHA POTENTIOMETERS

1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 5/16" Hole.

Type	Value	Code
Linear	5K	V30-5KB
Linear	10K	V30-10KB
Linear	25K	V30-25KB
Linear	100K	V30-100KB
Linear	250K	V30-250KB
Log	100K	V30-100KA
Log	250K	V30-250KA
Log	500K	V30-500KA
Log	1M	V30-1MA



ALPHA DUAL POTENTIOMETERS

1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 5/16" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Dual Linear	100K	V30-100KBX2
Dual Log	1M	V30-1MAX2



CTS POTENTIOMETERS

NYLON SHAFT

Type	Value	Code
Linear	100K	V32-100KB
Log	10K	V32-10KA
Log	250K	V32-250KA
Log	1M	V32-1MA
Reverse Log	50K	V32-50KRA
Reverse Log	3M	V32-3MRA



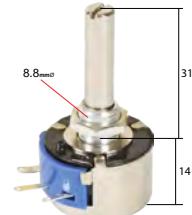
WIRE WOUND POTENTIOMETERS 200VDC 3W

1/4" solid shaft, 23mm diameter body, solder lugs, 3W rated. Fits 11/32" hole. Includes hex nut and washer.

Type	Value	Code
Linear	27Ω	WX206-27
Linear	500	WX206-50
Linear	100Ω	WX206-100
Linear	250Ω	WX206-250
Linear	500Ω	WX206-500
Linear	1KΩ	WX206-1K
Linear	2KΩ	WX206-2K
Linear	5KΩ	WX206-5K
Linear	10KΩ	WX206-10K



Type	Value	Code
Linear	27Ω	WX306-27
Linear	50Ω	WX306-50
Linear	100Ω	WX306-100
Linear	250Ω	WX306-250
Linear	500Ω	WX306-500
Linear	1KΩ	WX306-1K
Linear	2KΩ	WX306-2K
Linear	5KΩ	WX306-5K
Linear	10KΩ	WX306-10K





□ Variable

CTS SWITCHED POTENTIOMETERS

CTS PUSH-PULL SWITCH

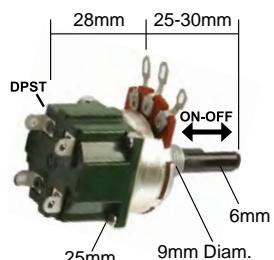
Type	Value	Code
Log	10K	V34-10KA
Log	1M	V34-1MA



SWITCHED POTENTIOMETERS

Potentiometer with Pull-Out Two pole Single throw 240VAC switch.

Type	Value	Code
Log	5K	VRS105
Log	20K	VRS120
Linear	50K	VRS150
Log	100K	VRS100

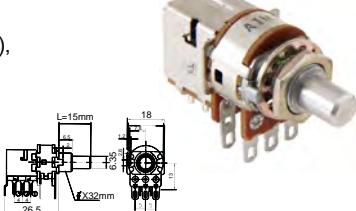


1M-LOG PUSH/PULL POTENTIOMETER DPDT

TUBE AMP DOCTOR

1M-log, stereo (can be wired in parallel to achieve a 500KA pot), 1/4" solid metal shaft, solder lug terminals, DPDT Switch. Suitable for Master volume.

Type	Value	Code
Log	1M	Z-PA1M



POTENTIOMETER LOG - PCB MOUNT

TUBE AMP DOCTOR - ENGL®

PCB Mount, logarithmic type to suit Engl® tube guitar amplifiers.

Type	Value	Code
Log	250KΩ	Z-E-A250K



POTENTIOMETER LINEAR - PCB MOUNT

TUBE AMP DOCTOR - ENGL®

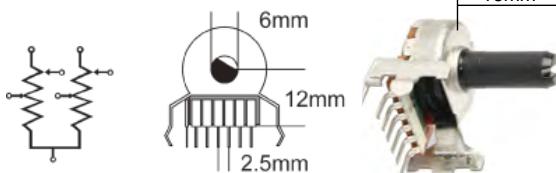
PCB Mount, linear type to suit Engl® tube guitar amplifiers.

Type	Value	Code
Linear	20KΩ	Z-E-B20K
Linear	1MΩ	Z-E-B1M



OEM VOLUME POT

Code
V50KBX2L



MINIATURE POTENTIOMETER

Suitable for use as a volume controller for portable radios, etc. Standard 1/4" Split-Shaft.

Value	Type	Code
5K	Log.	V17N-5K



MONO VOLUME CONTROL WITH SWITCH-OFF AT MINIMUM

Type	Value	Code
Log.	5K	V17S-5K
Log.	50K	V17S-50K



MINIATURE POTENTIOMETER

Mono Volume control With or without OFF switch Turn Volume to minimum, then off.

Value	Switch	Code
10K	No	V16N-10K
10K	Yes	V16S-10K
50K	No	V16N-50K



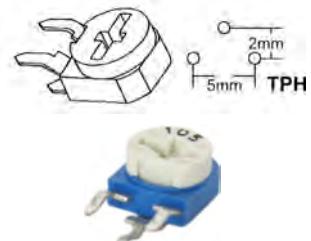
TRIMMING POTENTIOMETERS

Value	Code	5mm industry standard TrimPot Vertical adjustment.
200Ω	TPV200	
500Ω	TPV500	
1KΩ	TPV1K	
2KΩ	TPV2K	
5KΩ	TPV5K	
10KΩ	TPV10K	
20KΩ	TPV20K	
50KΩ	TPV50K	
100KΩ	TPV100K	
200KΩ	TPV200K	
500KΩ	TPV500K	
1MΩ	TPV1M	



TRIMMING POTENTIOMETERS

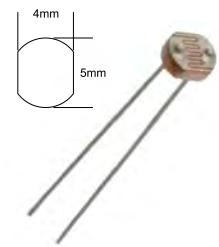
Value	Code	5mm industry standard TrimPot Horizontal adjustment.
200Ω	TPH200	
500Ω	TPH500	
1KΩ	TPH1K	
2KΩ	TPH2K	
5KΩ	TPH5K	
10KΩ	TPH10K	
20KΩ	TPH20K	
50KΩ	TPH50K	
100KΩ	TPH100K	
200KΩ	TPH200K	
500KΩ	TPH500K	
1MΩ	TPH1M	



LDR - LIGHT DEPENDENT RESISTORS

Reduces resistance when exposed to light.

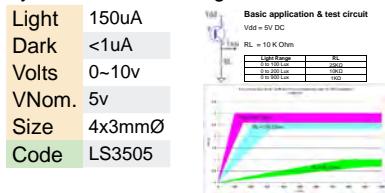
Light	16KΩ	3KΩ	40KΩ
Dark	2MΩ	200KΩ	1MΩ
Vmax	150Vdc	150Vdc	150Vdc
Pmax	100mW	125mW	125mW
Code	LDR07	AGI-8001	AGI-8005



LDR - VISIBLE LIGHT SENSOR

LUX TO CURRENT

Eye-sense® Visible Light Sensor.





Electronic Components

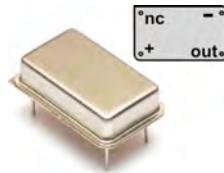
□ Components Misc

□ Crystals

CRYSTAL 4.433MHz

Crystal Oscillator block. TTL CMOS Compatible. As used in PAL Colour. 5V. 4.433MHz. 21x13x5mm

Freq.	Code
4.433MHz	QXO-1100



CRYSTALS LOW PROFILE

Freq.	Code
4.433000MHz	CR4.433LP
4.500000MHz	CR4.500LP
6.0000MHz	CR6.000LP
8.867238MHz	CR8.867LP
10.0000MHz	CR10.00LP



CRYSTALS STEEL CAP

Freq.	Code
2000Hz (2KHz)	2000HZ
3.562MHz	CR3.562
4.0000MHz	CR4.000
4.43361875MHz	CR4.433
4.5000MHz	CR4.500
6.0000MHz	CR6.000
8.867238MHz	CR8.867
10.0000MHz	CR10.00
18.432MHz	CR18.432
18.832MHz	CR18.832
27.000MHz	CR27.000



Low profile types may be supplied in place of full sized types, specs are identical. In some cases, stock may have a 3rd grounding pin. This can be removed to suit.

□ Resonators

CERAMIC RESONATOR 4.00MHz

3 Pin type With built-in load capacitance.

Freq.	Type	Code
4.00MHz	CST4.00MGW	



SAW RESONATOR 304.0MHz

Suit UHF Remote Controls.

Freq.	Type	Code
304MHz	Rectangular	SAR304



SAW RESONATOR 304.0MHz

Suit UHF Remote Controls. TO39-3

Freq.	Type	Code
304MHz	Round	SAR3040B



CERAMIC RESONATORS

SQUARE

Freq.	Code
307KHz	CSB307D
393KHz	CSB393
400KHz	CSB400
420KHz	CSB420J
429KHz	CSB429
430KHz	CSB430
440KHz	CSB440
450KHz	CSB450E
455KHz	CSB455
480KHz	CSB480
485KHz	CSB485
493KHz	CSB493



ROUND

Freq.	Code
3.52MHz	CSA3.52
3.58MHz	CSA3.58
10.00MHz	CSA10

10.00MHz CSA10

□ Filter Voltage

NOISE SUPPRESSOR FILTERS

SQUARE FILTER

Choke and Cap Fire-wall mount Weather resistant

Current	Code
5 Amp	NS15S
5 Amp	NS15R

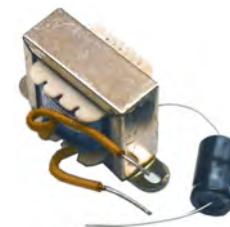


NOISE SUPPRESSOR KITS

"Hot Line" FILTER

Comprises of one choke, 6mH(5A) or 3mH(10A) & a 100µF Cap. Suit 12V Automotive, etc.

Current	Value	Code
5 Amp	6mH	NS5
10 Amp	3mH	NS10



NOISE SUPPRESSOR

Direct mount Condenser Capacitor for general ignition noise suppression. 0.47µF EHV weather proof.

Code
CNS2



4H INDUCTOR 90MA

VOLTAGE FILTER CHOKE

Replacement choke as used in vacuum tube amplifiers.

Size	49x59x46mm
L	4H
Current	90mA
DCR	105 ohm
Original	125C1A
Part No	022699
Code	NSC125C1A



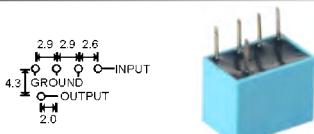


□ Filter IF

CERAMIC FILTER 455KHz

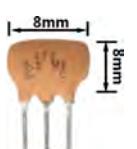
455KHz, 10KHz BW
Resin moulded

Code
CF455



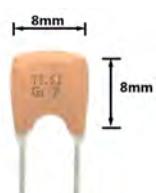
CERAMIC FILTER 5.5MHz

Freq.	5.5MHz
BW-3dB	±50KHz
BW-20dB	±400KHz
IL	-8dB
I/O	600Ω
Code	SFE5.5MBF



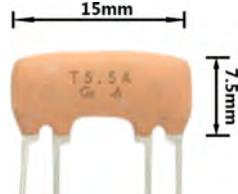
CERAMIC TRAP 5.5MHz

Freq.	5.5MHz
IL	-35dB
I/O	600Ω
Code	TPS5.5MJ



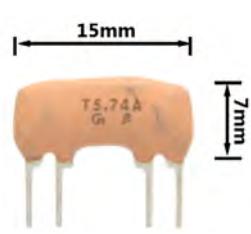
CERAMIC FILTER 5.5MHz

Freq.	5.5MHz
B/W	50KHz(-3dB)
I/O	600Ω
Code	SFT5.5MA



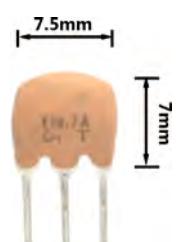
CERAMIC FILTER 5.74MHz

Freq.	5.74MHz
BW-3dB	±50KHz
BW-20dB	±350KHz
IL	-9dB
I/O	600Ω
Code	SFT5.74MA



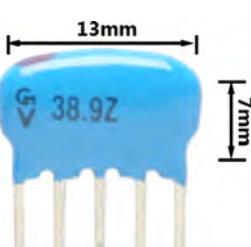
CERAMIC FILTER 10.7MHz

Freq.	10.7MHz
BW-3dB	±280KHz
BW-20dB	±650KHz
IL	-6dB
I/O	330Ω
Code	SFE10.7MA5A



SAW FILTER 38.9MHz

IL	-25dB
Freq.	38.9MHz
Code	SAF38.9MZ



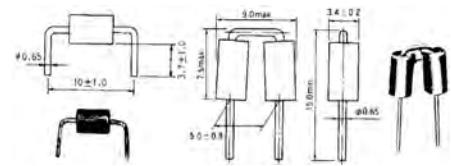
□ Filters

FERRITE BEAD INDUCTORS

EMI suppression filter for power supplies, digital signals, etc.

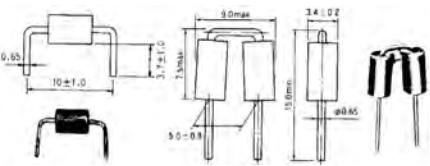
DOUBLE BEAD

Code
FBI-2



SINGLE BEAD

Code
FBI-1

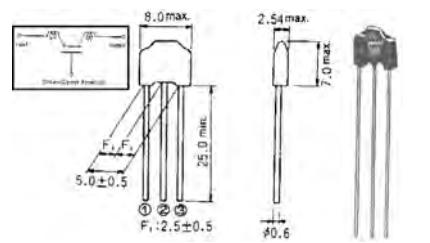


FERRITE & CAP FILTERS 3-PIN

EMI suppression filter. High noise rejection.

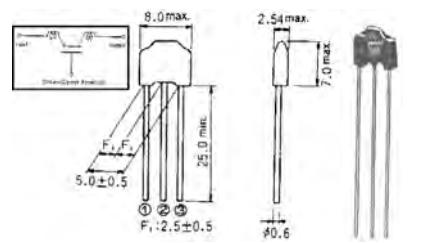
10,000pF 100V

Code
EMIF103



270pF 100V

Code
EMIF270



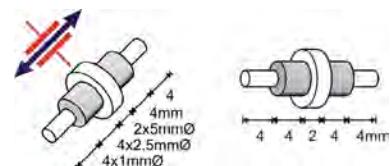
FEED THROUGH CAPS 18-AWG

SOLDER MOUNT

EMI suppression.
Feed-through type for
VHF/UHF noise filter.

Value
1nF 50V

Code
FT318-1000



FERRITE CABLE CLAMPS

These devices are highly permeable ferrite cores, split inside a plastic case that snaps closed over power and data cables. Suppress noise from / to many sources. eg. Computer monitors, Power cords, Switch mode supplies, etc... Choose by cable diameter.

Cable Size Code

5mm 15x23 EMIF1000

6.5mm 17x32 EMIF1350

7.5mm 20x32 EMIF1651

8.5mm 20x32 EMIF1652



□ Surge Arrester

GAS DC SURGE ARRESTER

Gas arresters offer protection against voltage transients on DC such as lightning, inductive switching, electrostatic, etc., in telephone and telecommunication equipment. Under normal conditions it's effectively a capacitor. When the impulse breakdown voltage is exceeded it goes conductive. The devices clamp to around 10 to 20V when arcing so they are NOT SUITABLE for 240VAC applications. Austel certified.

2 LEAD

Nom.	Min.	Max.	Break down	Code
600V	510V	950V	950V(100V/uS) 1200V(1KV/uS)	GSA260



3 LEAD

Nom.	Min.	Max.	Break down	Code
250V L-G	200V L-G	300V L-G	600V(100V/uS)L-G 600V L-L	PMT310





Electronic Components

□ Varistor MOV PTC

METAL OXIDE VARISTOR SHARP

Original part as used in Sharp appliances.

Code
VX0010



PTC - POLYSWITCH PROTECTORS

Positive temperature coefficient resistor that undergoes a large, quick increase in resistance when an over-current or high temperature heats it above a specific point. When the temperature reduces, the PolySwitch resets to resume normal operation. No manual resetting is required. Can be used to protect batteries, power supplies, motors, transformers, speakers, AC/DC, etc. The following characteristics are for DC in still air at 20°C. For AC use Ohms Law and a mean value for ITRIP & IHOLD (Remember the RMS!).

I hold	I trip	Cold Ω	Code
0.10	0.20	2.50	RXE010
0.17	0.34	2.00	RXE017
0.20	0.40	1.83	RXE020
0.25	0.50	1.25	RXE025
0.30	0.60	0.88	RXE030
0.40	0.80	0.55	RXE040
0.50	1.00	0.50	RXE050
0.65	1.30	0.31	RXE065
0.75	1.50	0.25	RXE075
1.10	2.20	0.15	RXE110
1.35	2.70	0.12	RXE135
1.60	3.20	0.09	RXE160
1.85	3.70	0.08	RXE185
2.50	5.00	0.05	RXE250
3.00	6.00	0.04	RXE300
3.75	7.50	0.03	RXE375



□ Transorbs

TRANSORBS DEVICES

TRANSIENT VOLTAGE SUPPRESSORS

AKA; Transient absorption or suppressor diode, Avalanche diode, Series Protection Diode, etc. Designed specifically to protect sensitive electronics equipment from voltage transients induced by lightning and other transient voltage events. These devices are ideal for the protection of I/O interfaces, Vcc bus and other vulnerable circuits used in automotive, industrial and consumer electronic applications.

MOSORB BI-DIRECTIONAL 1.5KW

Vmin	Volts	Vmax	Imax	Code
6.45	6.8	7.14	143	1.5KE6.8CA
17.1	18	18.9	60	1.5KE18CA
190	200	210	5.5	1.5KE200CA



MOSORB UNI-DIRECTIONAL 1.5KW

Vmin	Volts	Vmax	Imax	Code
14.3	15.0	15.8	71	1.5KE15A
22.8	24.0	25.2	45	1.5KE24A
171	180	189	6.1	1.5KE180A
190	200	210	5	1.5KE200A



MICROSEMI UNI-DIRECTIONAL 5KW

Vmin	Volts	Vmax	Imax	Code
40.0	36	44.2	86	5KP36A



HI-TECH VARISTORS VDR MOV

METAL OXIDE VARISTORS

Zinc Oxide Voltage Dependent Resistors. Fast, Low-Leak MOVs. High Performance. Protects from Over-Voltage, Spikes, etc. Joules are now based on 10/1000μS waveform. Imax is now based on a 10/1000μS waveform.

APPLICATIONS:

Surge protection in Consumer electronics Industrial electronics Telephone equipment Telecommunications Automotive instruments control and ignition systems. Measurement and control Gas & Petroleum Equipment Appliances, etc., etc. Absorption of switching surges for relays, switches, etc. Electro-static discharge Noise suppression specific component protection transistors, triacs, ICs, etc.



Vrms(AC)	Vmax(DC)	Imax	Joules	Code
11	18	500	2	7D180K
14	22	500	2	7D220K
60	100	1750	12	7D101K
95	150	1750	13	7D151K
150	240	1750	21	7D241K
190	300	1750	26	7D301K
250	390	1750	35	7D391K
275	430	1750	40	7D431K
300	470	1750	42	7D471K
350	560	1750	49	7D561K
420	680	1750	50	7D681K
130	200	3500	35	10D201K
150	216	2500	35	10D241K
190	300	3500	54	10D301K
250	390	3500	70	10D391K
275	430	3500	80	10D431K
300	470	3500	85	10D471K
350	560	3500	92	10D561K
420	680	3500	92	10D681K
460	750	3500	100	10D751K
510	820	3500	110	10D821K
25	39	2000	13	14D390K
30	38	2000	17	14D470K
50	82	6000	28	14D820K
75	120	6000	80	14D121K
150	240	6500	84	14D241K
175	270	6500	99	14D271K
190	300	6500	108	14D301K
250	390	6500	140	14D391K
275	430	6500	155	14D431K
300	470	6500	175	14D471K
350	560	6500	190	14D561K
385	620	6500	190	14D621K
420	680	6500	172	14D681K
17	22	3000	19	20D270K
130	200	10000	180	20D201K
210	330	10000	228	20D331K
275	430	10000	305	20D431K
485	780	10000	440	20D781K
510	670	1355	460	20D821K
300	470	20000	440	25D471K
350	560	20000	440	25D561K
420	680	40000	460	25D681K
300	385	40000	600	34S471K
360	470	40000	710	34S561K
420	560	40000	910	34S681K
485	640	40000	930	34S781K

Vmin	Volts	Vmax	Imax	Code
40.0	36	44.2	86	5KP36A





□ Thermal

□ Thermistor

THERMISTOR - TEMPERATURE SENSOR

PCB Mount (2.54mm)
Thermal device. 2.0KΩ at
25°C ±0.3°C Precision.

Code
202AT-2

WEATHER RESISTANT

"AT" Thermal resistor 60cm lead.
Encased head. ±0.3°C Accurate.
2KΩ at 25°C

Code
202AT-1



□ Self-Reset

PEPI THERMAL SWITCH - SELF RESET

Thermal trigger switch as commonly used in power supplies & battery packs.
With solder tags. Self-Resets.

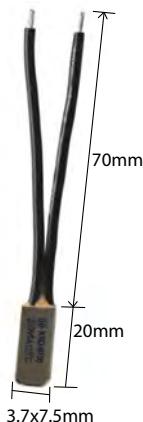
Size	Type	Temp	Volts	I	Code
20x5x7mm	N/C	45°	125V	6A	TSW45
15x3x5mm	N/C	46°	125V	2.6A	TSW46
15x3x7mm	N/O	46°	125V	2.6A	TSW47



THERMOSTAT 5A

Self reset for Fan motor, Transformers, Fluorescent lamp ballast, Battery, Induction Cooker, Motor etc. 5 Amp 250Vac. Tolerance ±5°C

Temp.	Code
70°C	KSD97-70
80°C	KSD97-80
85°C	KSD97-85
90°C	KSD97-90
95°C	KSD97-95
100°C	KSD97-100
105°C	KSD97-105
110°C	KSD97-110
115°C	KSD97-115
120°C	KSD97-120
125°C	KSD97-125
130°C	KSD97-130
135°C	KSD97-135
140°C	KSD97-140
145°C	KSD97-145
150°C	KSD97-150



□ Cut-Off

TRANSFORMER 2A THERMAL CUT-OFFS

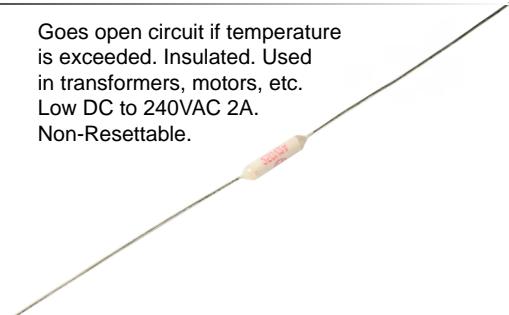
Goes open circuit if temperature is exceeded.
Insulated. Used in transformers, motors, etc.
Low DC to 240VAC 2A. Non-Resettable.

Size	Triggers	Code
6.5x2.5x9mm	102°C	TF102
6.5x2.5x9mm	115°C	TF115
6.5x2.5x9mm	125°C	TF125
6.5x2.5x9mm	130°C	TF130



TRANSFORMER 2A THERMAL CUT-OFFS

Temp	Code	Goes open circuit if temperature is exceeded. Insulated. Used in transformers, motors, etc.
100°C	TF12-100	
105°C	TF12-105	
110°C	TF12-110	
115°C	TF12-115	Low DC to 240VAC 2A. Non-Resettable.
120°C	TF12-120	
125°C	TF12-125	
130°C	TF12-130	
133°C	TF12-133	
140°C	TF12-140	
145°C	TF12-145	
150°C	TF12-150	



□ Cut-Off

THERMAL CUT-OFFS 10A

Thermal circuit breakers as used in appliances like microwave ovens. Self resetting. Thermal triggered. Rated at 10A 240Vac. Normally closed.

Temp	Code
70°C	MWT70
75°C	MWT75
80°C	MWT80
85°C	MWT85
90°C	MWT90
95°C	MWT95
100°C	MWT100
105°C	MWT105
110°C	MWT110
115°C	MWT115
120°C	MWT120
125°C	MWT125
135°C	MWT135
140°C	MWT140
145°C	MWT145
150°C	MWT150
155°C	MWT155
160°C	MWT160
165°C	MWT165



THERMAL CUT-OFFS 10A

Microtemp are Non-Resettable metal thermal They go open circuit if a temperature is exceeded. As used in appliances like toasters, heaters, etc. Rated at 240Vac 10A. ~60mm long.

Temp	Code
70°C	MT70
72°C	MT72
76°C	MT76
77°C	MT77
80°C	MT80
85°C	MT85
92°C	MT92
94°C	MT94
99°C	MT99
105°C	MT105
110°C	MT110
113°C	MT113
121°C	MT121
126°C	MT126
128°C	MT128
133°C	MT133
135°C	MT135
139°C	MT139
142°C	MT142
145°C	MT145
150°C	MT150
152°C	MT152
155°C	MT155
167°C	MT167
172°C	MT172
180°C	MT180
182°C	MT182
184°C	MT184
192°C	MT192
195°C	MT195
198°C	MT198
210°C	MT210
216°C	MT216
228°C	MT228
230°C	MT230
240°C	MT240
245°C	MT245





Electronic Components

□ Lamps Indicator Bulbs

INDICATOR LAMP 12V

Hole Diameter 7mm Volt 12

Colour	Code
Red	PL8R
Green	PL8GN



INDICATOR LAMP CHROMIUM BEZEL 12V LED

LED Insert with resistor. 12V Suit 8mm diameter hole.

Colour	Code
Blue	PL6BU
Red	PL6R
Green	PL6GN
Yellow	PL6YL
Empty	MTG5CHRM



INDICATOR LAMP 12V

Hole Diameter 15mm

Lens 18mm square.
12 Volt

Colour	Code
Orange	PL3



INDICATOR LAMP CHROMIUM BEZEL

Hole Diameter 8mm. Volt 12 Lamp.

Colour	Code
Green	PL5GN

NEON LAMP

Description	Voltage	Type	Code
Bare Wires	90Vac	Pigtail Type	NE2
With Buffer Resistor	240Vac	Pigtail Type	NE12



LED ULTRA-BRIGHT 5mm - 12 VOLT

NARROW BEAM 15°-30°

Replace incandescent lamps with long life ultra-bright LEDs.

- Standard sized 5mm PCB mount LEDs
- Very high ultra-bright mcd output levels
- Built-in beam lear lens narow beam focuser
- Operate direct to voltage, no regulator required

Colour	Voltage	Luminance (mcd)	Code
Cool White	12V	30000	LED12V-CW
Warm White	12V	13000	LED12V-WW
Blue	12V	6500	LED12V-BU
Green	12V	30000	LED12V-GN
Yellow	12V	4000	LED12V-YL
Red	12V	2600	LED12V-RD



□ Halogen

QUARTZ HALOGEN LAMPS 12VDC

Pins	Size	Watt	Code
4mm	22x8mm	20W	QHL20



Pins	Size	Watt	Code
6mm	30x10mm	20W	QHL21
6mm	30x10mm	50W	QHL50
6mm	30x10mm	75W	QHL75
6mm	30x10mm	100W	QHL101

QUARTZ HALOGEN 250VAC

Watt	Length	Code
100W	78mm	QHL100
150W	78mm	QHL150
300W	118mm	HG300W
1000W	189mm	QHL1000



□ Low-V Bulbs

ALARM WARNING LAMP

"Bi-pin" Lamp. Stiff legs. 60mA
As used in illuminated push
button switches, etc.

Order One to receive Five



Volts	Pack of	Code
12V	5	BIP3125
14V	5	BIP3145

INDICATOR LAMP REPLACEMENT

5mm Diam. 12 Volt 100mA

Code
IL50-12



PILOT LAMP 5mm SCREW

Torches, Dial Lamps, etc.

Volts	Code
3V	652-3
6V	652-6
12V	652-12

Quantity discounts available



PILOT LAMP 9mm SCREW

Suit torches*, Dial Lamps, etc.

Volts	Watt	Code
*2.2V	0.65W	653-3SB
*2.2V	0.7W	653-3LB
*5V	0.6W	653-5
6V	0.8W	653-6
12V	1.7W	653-12



PILOT LAMP 9mm BAYONET

Torches, Dial Lamps, etc.

Volts	Watt	Code
6V	1.5W	654-6
12V	1.5W	654-12



FUSE LAMPS 6.35mmx32mm

Same shape as a 3AG/MGC/TDL fuse.

Volts	Code
6v	754-6
8v	754-8
12V	754-12

Popular interior automotive
and older HiFi dial lamps, etc.
See fuse blocks for holders.



SMALL WEDGE LAMPS 5mm

1.2W Dimensions: 18x5mmØ

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	WL565
12V	5	WL5125

Volts	Pack of	Code
12V	1	WL5-12



WEDGE LAMPS 10mm

3W Dimensions: 25x10mmØ

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	WL1065
8V	5	WL1085
12V	5	WL10125

Volts	Pack of	Code
12V	1	WL10-12





Wire Type

LEAD LAMPS 3mm

Supplied individually (order one to receive one).

Volts	Code
6V	NL692-3-6
9V	NL692-3-9
12V	NL692-3-12



LEAD LAMPS 4mm

Volts	Code
6V	NL692-4-6
9V	NL692-4-9
12V	NL692-4-12



LEAD LAMPS 5mm

Volts	Code
6V	NL692-5-6
9V	NL692-5-9
12V	NL692-5-12
24V	NL692-5-24



LEAD LAMP 4mm

LOW BRIGHTNESS TYPE

Less heat and brightness as used in some indicators.

Volts	Code
12V	SL25



AXIAL LAMPS 3mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
9V	5	AXL395
12V	5	AXL3125



AXIAL LAMPS 4mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	AXL465
9V	5	AXL495
12V	5	AXL4125



AXIAL LAMPS 5mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	AXL565



WIRE TERMINAL 2.3mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	WT265
9V	5	WT295
12V	5	WT2125



WIRE TERMINAL 3mm - LOW POWER

Some car stereo front panels have coloured lighting using the low current wire terminal lamps below with the original rubber covers. (Re-use the original covers.) Order one to receive a bag of five!

V/I	Pack of	Code
6V 30mA	5	IL3065
12V 40mA	5	IL30125



WIRE TERMINAL 3mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	WT365
8V	5	WT385
9V	5	WT395
12V	5	WT3125



WIRE TERMINAL 4mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
6V	5	WT465
9V	5	WT495
12V	5	WT4125
14V	5	WT4145



WIRE TERMINAL 5mm

Order One to receive a bag of FIVE

Volts	Pack of	Code
12V	5	WT5125
24V	5	WT5245
6V	5	WT565



BI-PIN LAMP BOARD STAND-OFF

REQUIRES WIRE TERMINAL LAMP

Plastic High-Temp base for holding Bi-wire lead lamps. Suits 5mm wire terminal lamps (Required).

Size	Suits	Code
11x8mm Ø	5mm	SL79-12



Shown with Bi-wire Lead lamps
NOT INCLUDED

BI-PIN LAMPS 4mm & 5mm

Order One to receive a bag of FIVE

Volts	Globe	Pack of	Code
6V	4mm	5	BIP465
8V	4mm	5	BIP485
12V	3mm	5	BIP3125
12V	4mm	5	BIP4125
12V	5mm	5	BIP5125





Electronic Components

Fuses

CEB GLASS FUSE 2AG

Amps	Code
50mA	CEB.050
100mA	CEB.100
125mA	CEB.125
150mA	CEB.150
160mA	CEB.160
200mA	CEB.200
250mA	CEB.250
315mA	CEB.315
400mA	CEB.400
500mA	CEB.500
600mA	CEB.600
630mA	CEB.630
750mA	CEB.750
800mA	CEB.800
1A	CEB1
1.25A	CEB1.25
1.5A	CEB1.5
1.6A	CEB1.6
2A	CEB2
2.5A	CEB2.5
3A	CEB3
3.15A	CEB3.15
3.5A	CEB3.5
4A	CEB4
5A	CEB5
6.3A	CEB6.3
6.5A	CEB6.5
7A	CEB7
7.5A	CEB7.5
8A	CEB8
10A	CEB10
12A	CEB12
15A	CEB15
20A	CEB20

2AG

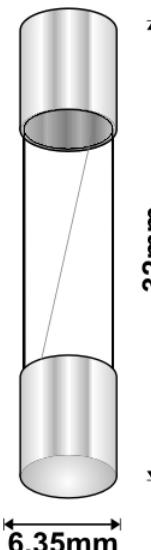


20mm
5mm

MGC GLASS FUSE 3AG

Amps	Code
50mA	MGC.050
100mA	MGC.100
125mA	MGC.125
150mA	MGC.150
160mA	MGC.160
200mA	MGC.200
250mA	MGC.250
315mA	MGC.315
350mA	MGC.350
500mA	MGC.500
600mA	MGC.600
630mA	MGC.630
750mA	MGC.750
800mA	MGC.800
1A	MGC1
1.25A	MGC1.25
1.5A	MGC1.5
1.6A	MGC1.6
2A	MGC2
2.5A	MGC2.5
3A	MGC3
3.15A	MGC3.15
3.5A	MGC3.5
4A	MGC4
5A	MGC5
6.3A	MGC6.3
6.5A	MGC6.5
7A	MGC7
7.5A	MGC7.5
8A	MGC8
10A	MGC10
12A	MGC12
15A	MGC15
20A	MGC20
25A	MGC25
30A	MGC30

3AG



32mm
6.35mm

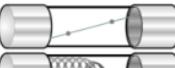
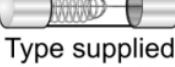
TBX SLOW BLOW 2AG

Amps	Code
50mA	TBX.050
100mA	TBX.100
125mA	TBX.125
150mA	TBX.150
160mA	TBX.160
200mA	TBX.200
250mA	TBX.250
315mA	TBX.315
400mA	TBX.400
500mA	TBX.500
630mA	TBX.630
750mA	TBX.750
800mA	TBX.800
1A	TBX1
1.25A	TBX1.25
1.5A	TBX1.5
1.6A	TBX1.6
2A	TBX2
2.5A	TBX2.5
3A	TBX3
3.15A	TBX3.15
3.5A	TBX3.5
4A	TBX4
5A	TBX5
6A	TBX6
6.3A	TBX6.3
6.5A	TBX6.5
7A	TBX7
8A	TBX8
10A	TBX10
15A	TBX15

2AG



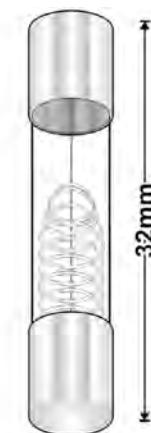
20mm
5mm

Two Types:


Type supplied on availability

TDL SLOW BLOW 3AG

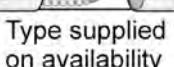
Amps	Code
50mA	TDL.050
100mA	TDL.100
125mA	TDL.125
150mA	TDL.150
160mA	TDL.160
200mA	TDL.200
250mA	TDL.250
315mA	TDL.315
350mA	TDL.350
375mA	TDL.375
500mA	TDL.500
600mA	TDL.600
630mA	TDL.630
750mA	TDL.750
800mA	TDL.800
1A	TDL1
1.25A	TDL1.25
1.5A	TDL1.5
1.6A	TDL1.6
2A	TDL2
2.5A	TDL2.5
3A	TDL3
3.15A	TDL3.15
3.5A	TDL3.5
4A	TDL4
5A	TDL5
6.3A	TDL6.3
7A	TDL7
7.5A	TDL7.5
8A	TDL8
10A	TDL10
15A	TDL15
20A	TDL20

3AG



32mm
6.35mm

Two Types:


Type supplied on availability



TBX PIGTAIL GLASS FUSES 2AG

SLOW BLOW (250V)

Amps	Code
100mA	TBX.100PT
125mA	TBX.125PT
160mA	TBX.160PT
200mA	TBX.200PT
250mA	TBX.250PT
315mA	TBX.315PT
400mA	TBX.400PT
500mA	TBX.500PT
630mA	TBX.630PT
800mA	TBX.800PT
1A	TBX1PT
1.25A	TBX1.25PT
1.6A	TBX1.6PT
2A	TBX2PT
2.5A	TBX2.5PT
3.15A	TBX3.15PT
4A	TBX4PT
5A	TBX5PT
6.3A	TBX6.3PT
8A	TBX8PT
10A	TBX10PT
12A	TBX12PT
12.5A	TBX12.5PT
15A	TBX15PT
16A	TBX16PT
20A	TBX20PT

2AG



TDL PIGTAIL GLASS FUSES 3AG

SLOW-BLOW (250V)

Amps	Code
200mA	TDL.200PT
250mA	TDL.250PT
300mA	TDL.300PT
315mA	TDL.315PT
350mA	TDL.350PT
400mA	TDL.400PT
500mA	TDL.500PT
600mA	TDL.600PT
630mA	TDL.630PT
750mA	TDL.750PT
800mA	TDL.800PT
1A	TDL1PT
1.2A	TDL1.2PT
1.25A	TDL1.25PT
1.5A	TDL1.5PT
1.6A	TDL1.6PT
2A	TDL2PT
2.5A	TDL2.5PT
3A	TDL3PT
3.15A	TDL3.15PT
3.5A	TDL3.5PT
4A	TDL4PT
5A	TDL5PT
6A	TDL6PT
6.3A	TDL6.3PT
7A	TDL7PT
8A	TDL8PT
9A	TDL9PT
10A	TDL10PT
12A	TDL12PT
15A	TDL15PT

3AG



CEB PIGTAIL GLASS FUSES 2AG

FAST BLOW (250V)

Amps	Code
125mA	CEB.125PT
160mA	CEB.160PT
200mA	CEB.200PT
250mA	CEB.250PT
315mA	CEB.315PT
400mA	CEB.400PT
500mA	CEB.500PT
630mA	CEB.630PT
750mA	CEB.750PT
800mA	CEB.800PT
1A	CEB1PT
1.25A	CEB1.25PT
1.6A	CEB1.6PT
2A	CEB2PT
2.5A	CEB2.5PT
3.15A	CEB3.15PT
4A	CEB4PT
5A	CEB5PT
6.3A	CEB6.3PT
8A	CEB8PT
10A	CEB10PT
12A	CEB12PT
12.5A	CEB12.5PT
15A	CEB15PT
16A	CEB16PT
20A	CEB20PT

2AG



MGC PIGTAIL GLASS FUSES 3AG

FAST BLOW (250V)

Amps	Code
100mA	MGC.100PT
125mA	MGC.125PT
150mA	MGC.150PT
160mA	MGC.160PT
200mA	MGC.200PT
250mA	MGC.250PT
300mA	MGC.300PT
315mA	MGC.315PT
350mA	MGC.350PT
400mA	MGC.400PT
500mA	MGC.500PT
600mA	MGC.600PT
630mA	MGC.630PT
750mA	MGC.750PT
800mA	MGC.800PT
1A	MGC1PT
1.2A	MGC1.2PT
1.25A	MGC1.25PT
1.5A	MGC1.5PT
1.6A	MGC1.6PT
2A	MGC2PT
2.5A	MGC2.5PT
3A	MGC3PT
3.15A	MGC3.15PT
3.5A	MGC3.5PT
4A	MGC4PT
5A	MGC5PT
6A	MGC6PT
6.3A	MGC6.3PT
7A	MGC7PT
8A	MGC8PT
9A	MGC9PT
10A	MGC10PT
12A	MGC12PT
15A	MGC15PT

3AG

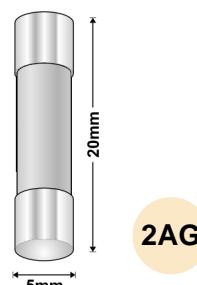




Electronic Components

ABD CERAMIC 2AG FAST BLOW

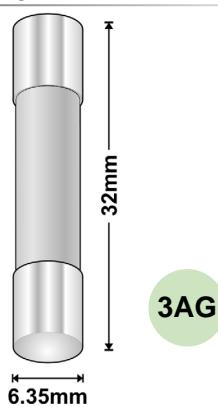
Amps	Code
500mA	ABD.500
750mA	ABD.750
1A	ABD1
2A	ABD2
2.5A	ABD2.5
3A	ABD3
4	ABD4
5A	ABD5
6A	ABD6
7A	ABD7
8A	ABD8
10A	ABD10



2AG

ABC CERAMIC 3AG FAST BLOW

Amps	Code
750mA	ABC.750
1A	ABC1
2A	ABC2
2.5A	ABC2.5
3A	ABC3
4A	ABC4
5A	ABC5
6A	ABC6
7A	ABC7
8A	ABC8
10A	ABC10
15A	ABC15
20A	ABC20

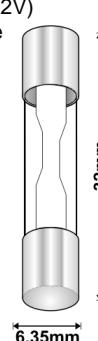


3AG

AGF 32V FAST 3AG

Amps	Code
1A	AGF1
2A	AGF2
3A	AGF3
4A	AGF4
5A	AGF5
6A	AGF6
8A	AGF8
10A	AGF10
12A	AGF12
15A	AGF15
20A	AGF20
25A	AGF25
30A	AGF30
35A	AGF35

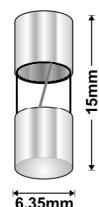
3AG



3AG

AGA GLASS FUSE

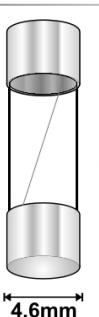
Amps	Code
1A	AGA1
1.5A	AGA1.5
2A	AGA2
2.5A	AGA2.5
6A	AGA6
7.5A	AGA7.5
10A	AGA10
15A	AGA15
25A	AGA25
30A	AGA30



3AG

SGB GLASS FUSE

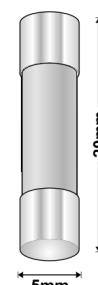
Amps	Code
125mA	SGB.125
315mA	SGB.315
1A	SGB1
1.6A	SGB1.6
2A	SGB2
2.5A	SGB2.5
3A	SGB3
5A	SGB5
7.5A	SGB7.5
8A	SGB8
20A	SGB20



4.6mm

AFD CERAMIC 2AG SLOW BLOW

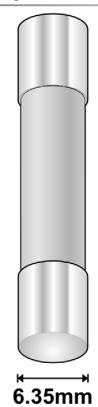
Amps	Code
250mA	AFD.250
1A	AFD1
1.25A	AFD1.25
1.6A	AFD1.6
2A	AFD2
2.5A	AFD2.5
3.15A	AFD3.15
5A	AFD5
6.3A	AFD6.3
8A	AFD8
10A	AFD10
12.5A	AFD12.5



2AG

AFC CERAMIC 3AG SLOW BLOW

Amps	Code
1A	AFC1
1.5A	AFC1.5
1.6A	AFC1.6
2.5A	AFC2.5
3.15A	AFC3.15
5A	AFC5
6.3A	AFC6.3
7A	AFC7
8A	AFC8
10A	AFC10
16A	AFC16
12A	AFC12
15A	AFC15
20A	AFC20



3AG

BOS GLASS FUSE

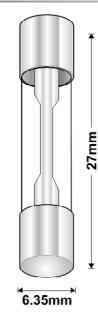
Amps	Code
3A	BOS3
5A	BOS5
10A	BOS10
15A	BOS15
20A	BOS20
25A	BOS25
30A	BOS30
35A	BOS35



6.35mm

SFE GLASS FUSE

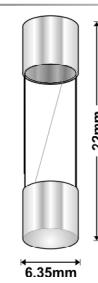
Amps	Code
1A	SFE1
1.5A	SFE1.5
2A	SFE2
3A	SFE3
6A	SFE6
7.5A	SFE7.5
9A	SFE9
14A	SFE14
20A	SFE20



6.35mm

AGW GLASS FUSE

Amps	Code
1A	AGW1
1.5A	AGW1.5
3A	AGW3
5A	AGW5
7.5A	AGW7.5
10A	AGW10
15A	AGW15
20A	AGW20
25A	AGW25
30A	AGW30



6.35mm



CIRCUIT PROTECTOR CHIPS - F

Current	Code
400mA	ICPF10
600mA	ICPF15
800mA	ICPF20
1A	ICPF25
1.5A	ICPF38
2A	ICPF50



CIRCUIT PROTECTOR CHIPS - N

Current	Code
250mA	ICPN5
400mA	ICPN10
600mA	ICPN15
800mA	ICPN20
1A	ICPN25
1.5A	ICPN38
2A	ICPN50
2.7A	ICPN75



MICRO FUSES RADIAL

SLOW BLOW Time Lag 8mm x 8mmØ

Amps	Code
100mA	ETF100
125mA	ETF125
160mA	ETF160
200mA	ETF200
250mA	ETF250
315mA	ETF315
400mA	ETF400
500mA	ETF500
630mA	ETF630
800mA	ETF800
1A	ETF1
1.25A	ETF1.25
1.6A	ETF1.6
2A	ETF2
2.5A	ETF2.5
3.15A	ETF3.15
4A	ETF4
5A	ETF5
6.3A	ETF6.3



PICOFUSES

Current	Code
100mA	PF.100
125mA	PF.125
160mA	PF.160
250mA	PF.250
315mA	PF.315
375mA	PF.375
500mA	PF.500
630mA	PF.630
750mA	PF.750
1A	PF1
1.2A	PF1.2
1.5A	PF1.5
2A	PF2
2.5A	PF2.5
3A	PF3
3.5A	PF3.5
4A	PF4
5A	PF5
6.3A	PF6.3
10A	PF10
15A	PF15



Very Fast Blow.
2.4x7mm
Length 62mm

HRC HIGH RUPTURE 5AG FUSE

Ceramic Barrel 5AG 38x10mmØ
500Vdc/660Vac 100KA Surge

Current	Code
1A	HRC1
6A	HRC6
8A	HRC8
10A	HRC10
16A	HRC16
20A	HRC20
32A	HRC32

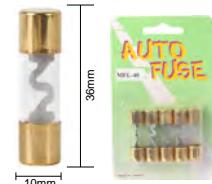


SHATTER PROOF

HIGH CURRENT 5AG CAR-AMP FUSES

Large Gold plated fuses as used in high-end car audio equipment.
See Automotive Section for fuse holders to suit, etc.

Current	Pack of	Code
10A	5	MFL10
20A	5	MFL20
30A	5	MFL30
40A	5	MFL40
50A	5	MFL50
60A	5	MFL60



GBC FUSES

Amps	Code
5A	GBC5
8A	GBC8
16A	GBC16
20A	GBC20
25A	GBC25
35A	GBC35



*Colours may differ: Check value stamped on barrel or holder.

ANL MEGA-FUSE

2" BLADE GOLD-PLATED

Low voltage High current.

Amps	Code
80A	AP466
100A	AP467
150A	AP468
200A	AP469



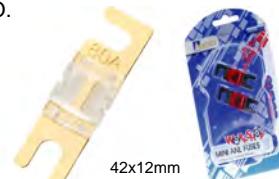
81x22mm

AMA FUSES

BUY 1 TO RECEIVE 2

Mini version of the ANL fuse straps.
Sold packaged in packets of TWO.

Amps	Pack of	Code
50	2	AMA50
60	2	AMA60
80	2	AMA80
100	2	AMA100
120	2	AMA120



42x12mm

ATN FUSES 5 PACK

MINI 11mm BLADE FUSE X5

Order 1 to receive a box of FIVE.

Current	Pack of	Code
5A	5	ATN5
7.5A	5	ATN7.5
10A	5	ATN10
15A	5	ATN15
20A	5	ATN20
25A	5	ATN25
30A	5	ATN30





Electronic Components

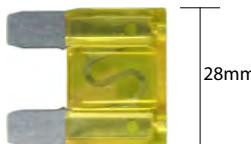
Fuses

ATM MAXI-FUSE LARGE 28MM

Jumbo sized for jumbo currents.

Current

Code
20A ATM20
30A ATM30
40A ATM40
50A ATM50
60A ATM60
70A ATM70
80A ATM80



ATC AUTO FUSE POPULAR 18MM

Popular type "Spade terminal"

As used in many of today's cars.

Current

Pack of	Code
5 ATC2	
5 ATC3	
5 ATC4	
5 ATC5	
5 ATC7.5	
5 ATC10	
5 ATC15	
5 ATC20	
5 ATC25	
5 ATC30	
5 ATC35	

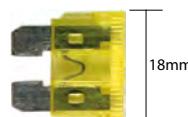


ATC 18MM BULK

ORDER ONE TO RECEIVE FIFTY

Current

Pack of	Code
50 ATC3-50	
50 ATC4-50	
50 ATC5-50	
50 ATC7.5-50	
50 ATC10-50	
50 ATC15-50	
50 ATC20-50	
50 ATC25-50	
50 ATC30-50	
50 ATC35-50	

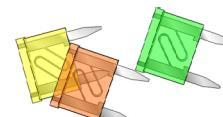
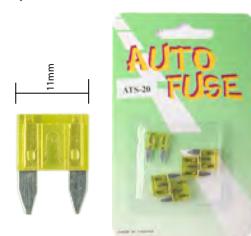


ATS AUTOMOTIVE FUSES MINI 11MM

Miniature fuse used in car amps, audio, etc.

Current

Pack of	Code
5 ATS2	
5 ATS3	
5 ATS4	
5 ATS5	
5 ATS7.5	
5 ATS10	
5 ATS15	
5 ATS20	
5 ATS25	
5 ATS30	
5 ATS35	

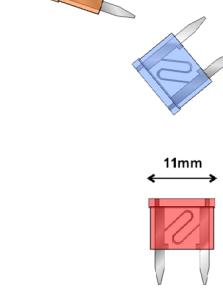


ATS 11MM BULK

ORDER ONE TO RECEIVE FIFTY

Current

Pack of	Code
50 ATS3-50	
50 ATS4-50	
50 ATS5-50	
50 ATS7.5-50	
50 ATS10-50	
50 ATS15-50	
50 ATS20-50	
50 ATS25-50	
50 ATS30-50	
50 ATS35-50	



□

Circuit-Breakers

PANEL MOUNT BREAKERS

Thermal. Resettable. AC/DC 240Vac max.
50Vdc max. 150% Slow. 200% Fast.

Amps

Code
PCB2
PCB3
PCB5
PCB10
PCB15



PANEL MOUNT BREAKERS

240Vac max. 50Vdc max.
150% Slow. 200% Fast.

Amps

Code
CRB3
CRB5
CRB10
CRB15
CRB20
CRB25
CRB30
CRB35



SNAP FIT PUSH BUTTON

Switch kicks Off when current exceeded. Simply switch back on.
Combination illuminated switch in one compact package.

Amps

Code
PMB3
PMB5
PMB8
PMB10
PMB15



Hold Current: 100% load indefinitely

Trip Current: Within 1 hr @ 135% load

Within 1 minute @ 200% load

Neon Voltage: 250V AC

Max. Voltage: 250V AC or 50V DC

Panel Cutout: 13.35mm x 28.5mm

Dimensions: 33H x 32L x 15.5W mm

RESETTABLE CIRCUIT BREAKERS

BAKELITE FLAT MOUNT

Current

Code
CRB70
CRB100
CRB140



Fuse Holders

3 PACK BLADE FUSE TAPS - AERPRO

Replace an existing fuse to tap accessory power.

Two fuse holders. Pass-through and tap-off (5A).

Type

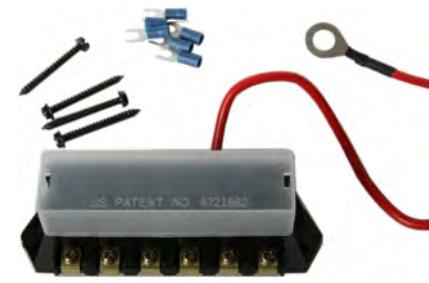
Code
APFTAP1
APFTAP2
APFTAP3
APFTAP4
APFTAP5



ATC FUSE BLOCK

Designed for multiple hook-up of accessories, each with individual screw terminal outputs. Accepts up to six fuses. (Not included) See ATC

Code
AFB400





□ Fuse Holders

ATS WATER RESISTANT

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. ATS Fuse not included.
135mm x2 12AWG wire

Code
FH17



ATC WATER RESISTANT

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. Fuse not included.

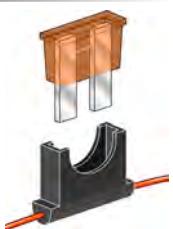
Max. Code
30A FH18



ATC INLINE FUSE

General purpose Suit ATC plug-in fuses with wiring. No soldering required. Fuse not included.

Max. Code
30A JEF703



ATC INLINE FUSE HOLDER KIT

CRIMP CONNECTORS

General purpose. Suitable to use with ATC plug-in fuses. Includes insulated housing and crimp connectors. Requires wiring.

Code
JEF703-KIT



ATM MAXI-FUSE HOLDER 28MM

WATER-PROOF

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. Leads 2x 120mm 8AWG

Code
FH-MAXI



ATM FUSE BLOCK

Gold-Plated Fuse Block Clear plastic covered 8mm(x2) in, 6mm(x4) out. Suits "ATM" 28mm fuses.

Code
FDB531



More, see...
Automotive 09

FUSE PULLER

For removing Round Glass Fuses and also ATC type fuses.

Code
FRT3



HEAVY DUTY

Code
YF-6254

FUSE HOLDERS

Chassis mount. Bakelite.

20x5mm CEB/TBX

Code
FH3



32x6.35mm MGC/TDL

Code
FH2

FUSE HOLDER

Screws open with a coin or screwdriver. Chassis mount.

Extrudes only 2mm Hi-Temp plastic.

20x5mm CEB/TBX

Code
FH31



FUSE HOLDER

Cap opens with a screwdriver

Chassis mount. Bakelite. 10A.

32x6.35mm MGC/TDL

Code
FH21



MGC/TDL FUSE HOLDER

Chassis mount Suit 32 x 6.35mm fuse Clip off face.

Code
FH12



MGC/TDL FUSE HOLDER

In-line kit Suit 32 x 6.35mm fuse Clear plastic

Code
FH5



MGC/TDL FUSE HOLDER

In-line with 45cm lead. Suit 32 x 6.35mm fuse Popular bayonet type Ready made with wire No soldering required.

Code
FH4



MGC/TDL HEAVY DUTY

Wired with 12 gauge 40cm lead Suit 32 x 6.35mm fuse Screw barrel.

High temperature plastic. No soldering required.

Code
FH8



MGC/TDL WEATHER-PROOF

RUBBER BOOT TYPE

Heavy duty Water proof Yellow rubber 3AG 15A Max Chromium Crimp

Code
FH306



SCREW-DOWN FUSE HOLDER

Fibre-Glass. Chassis mount

20x5mm CEB/TBX

Code
FH14



32x6.35mm MGC/TDL

Code
FH16

PCB MOUNT FUSE ENDS

10mm MFL/HRC each.

Pack of Code
One FH1038



5mm CEB/TBX

Pack of Code
10 FH9

6.35mm MGC/TDL

Pack of Code
10 FH10



MGC/TDL FUSE HOLDER

Car Accessories plug. High temp casing with holder to suit 32x6.35mm fuse

Code
P810



AGU FUSE HOLDERS

4-8 AWG CABLE

Code
FH512



FUSES NOT INCLUDED

AGU

AGU DISTRIBUTION BLOCK

Gold plated AGU with clear plastic cover. Uses 10A to 60A AGU type fuses (Not included). Single AWG4 in, two fused output 8AWG

Code
FDB526



FUSES NOT INCLUDED

AGU FUSE BLOCKS

REQUIRES AGU FUSES

8AWG to 8AWG terminals Fused.

Type Code
2-Way AP442
3-Way AP444
4-Way AP450



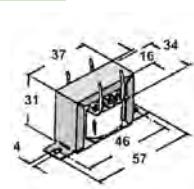
FUSES NOT INCLUDED

Electronic Components

□ Power Transformers

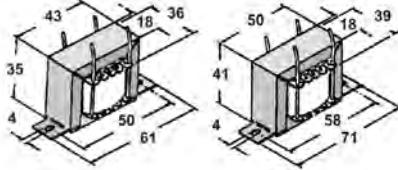
6V 250mA AC POWER TRANSFORMER

Volts	Current	Code
6 VOLTS	250mA	PT6-250



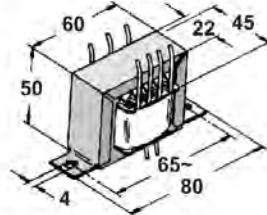
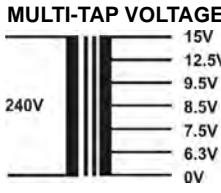
12V 300mA 12V 500mA AC POWER TRANSFORMER

Volts	Current	Code
6V-0V-6V	300mA	PT12-300
6V-0V-6V	500mA	PT12-500



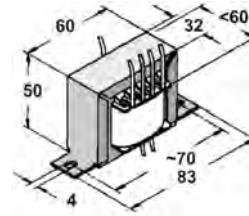
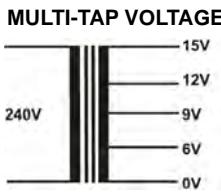
15W AC POWER TRANSFORMER

Volts	Current	Code
6.3V-7.5V-8.5V-9.5V-12.5V-15V	1 AMP	PT2155



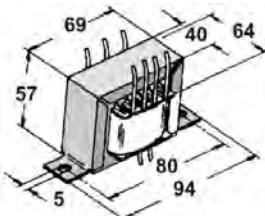
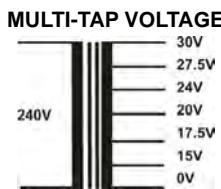
30W AC POWER TRANSFORMER

Volts	Current	Code
6V-9V-12V-15V	2 AMP	PT2156



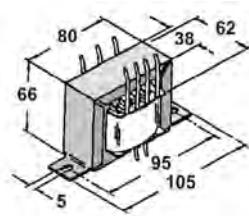
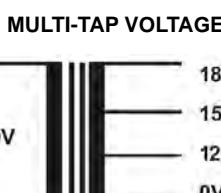
30W AC POWER TRANSFORMER

Volts	Current	Code
0V-15V-17.5V-20V-24V-27.5V-30V	1 AMP	PT6672



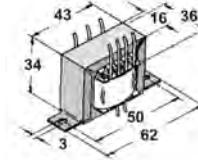
50W AC POWER TRANSFORMER

Volts	Current	Code
12V-15V-18V	2.5A	PT1825

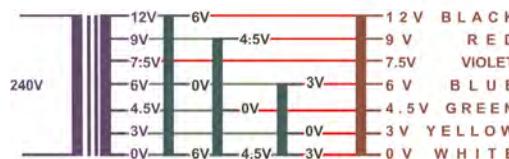


4W AC MULTI-TAP TRANSFORMER UNIVERSAL

300mA 12Vac Taps
3/4.5/6/7.5/9/12 Volts or
6/9/12 Volt Centre Tapped
43x36x34mm 4 Watt transformer

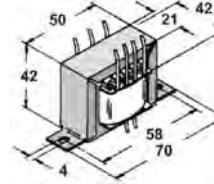


Current	Code
300mA	PT1312

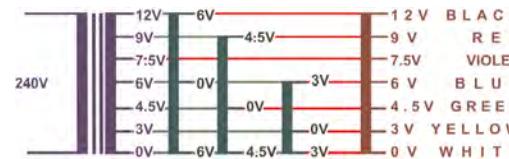


6W AC MULTI-TAP TRANSFORMER UNIVERSAL

500mA 12Vac Taps
3/4.5/6/7.5/9/12 Volts or
6/9/12 Volt Centre Tapped
50x42x42mm 6 Watt transformer



Current	Code
500mA	PT1512



TOROIDAL POWER TRANSFORMERS

COMPACT EFFICIENT LOW-NOISE 20W - 160W - 300W

Transformers are wound with heavy gauge copper and are wrapped with polyester tape. Meeting all major industry standards. Includes mounting kit with plate, pads, nut, and bolt. Wire in series for centre-tap V+V output or double the current by wiring in parallel.

Volts	Series	Parallel	Watt	Size	Code
9+9	1.11A	2.22A	20W	30x71mmØ	TOR-2082
12+12	0.83A	1.66A	20W	30x71mmØ	TOR-2084
15+15	0.67A	1.33A	20W	30x71mmØ	TOR-2086
12+12	6.66A	13.3A	160W	40x110mmØ	TOR-2112
18+18	4.44A	8.88A	160W	40x110mmØ	TOR-2113
25+25	3.20A	6.40A	160W	40x110mmØ	TOR-2114
12+12	12.5A	25.0A	300W	55x125mmØ	TOR-2130
40+40	3.75A	7.50A	300W	55x125mmØ	TOR-2140
50+50	3.00A	6.00A	300W	55x125mmØ	TOR-2144



240Vac VARIAC - VARIABLE AC TRANSFORMER

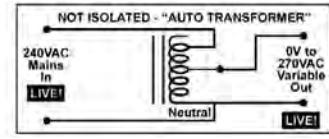
AC TRANSFORMER - DOES NOT ISOLATE - LIVE AC

Technicians Repair/Service Instrument. 240Vac Mains Plug Input with variable 0Vac to 260Vac output. Mechanically adjustable by an Auto-Transformer (No isolation).

Code
MP3080



FOR TECHNICIANS
HIGH VOLTAGE
TEST PLATFORM FOR REPAIRING





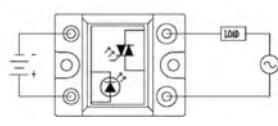
□ Relays

□ Solid State Relays

SOLID STATE RELAYS

No moving parts semiconductor opto-isolated Triac.

Coil	3-32Vdc 12mA
Type	SPST
Amax	40Arms
Vmax	250Vrms 480Vrms
Size	45x58x16mm 62x45x24mm
Code	KSD240AC8 SSR-40

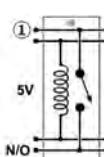


□ GP Relays

SPST REED DIP

Can be driven directly by CMOS, TTL, etc. Vmax 100VDC/AC peak I_{max} ½A switch 1A carry.

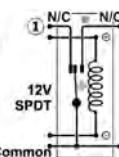
Type	SPST
Vmax	100V
Amax	0.5A
Size	20x7x7mm
Coil	5V 10mA 12V 12mA
Code	RL1A05 RL1A12



SPDT REED DIP

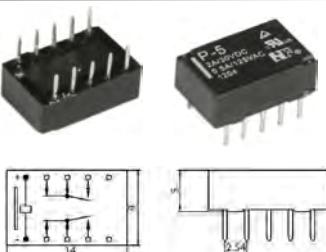
Can be driven directly by TTL, etc. Vmax 100VDC/AC peak I_{max} ½A switch ½A carry.

Type	SPDT
Vmax	100V
Amax	250mA
Size	20x7x7mm
Coil	5V 10mA 12V 12mA
Code	RL1C05 RL1C12



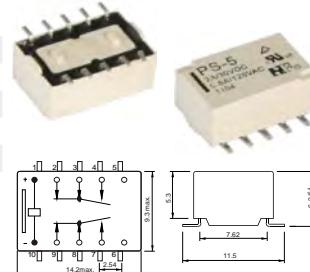
DPDT TELECOM PCB

Type	DPDT
Vmax	125Vac / 30Vdc
Amax	500mA / 2A
Size	14x9x5mm
Coil	5V 12V 24V
Code	RL-P-5 RL-P-12 RL-P-24



DPDT TELECOM SMD

Type	DPDT
Vmax	125Vac / 30Vdc
Amax	500mA / 2A
Size	14x9x6mm
Coil	5V 12V 24V
Code	RL-PS-5 RL-PS-12 RL-PS-24





Electronic Components

□ GP Relays

SPDT NT73-2C PCB

6A SPDT PCB type. P/No. NT73-2C-S10

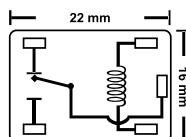
Type	SPDT
Vmax	250Vac/28Vdc
Amax	6A
Size	20x16x16mm
Coil	12V 24V
Code	NT73-2C-12 NT73-2C-24



SPDT RELAY PCB

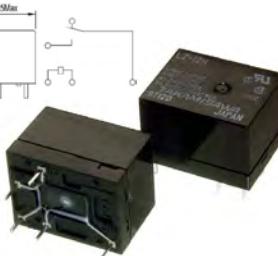
NT71-10S12

Coil	12V 40mA
Type	SPDT
Vmax	380Vac 110Vdc
Amax	6A / 15A
Size	23x17x17mm
Code	MR301-12



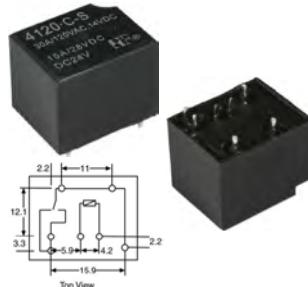
SPDT LZ RELAY

Type	SPDT
Vmax	380Vac / 110Vdc
Amax	5A
Size	22x16x15mm
Coil	12V 25mA 24V 25mA
Code	LZ12HK LZ24HK



SPDT 4120-CS PCB

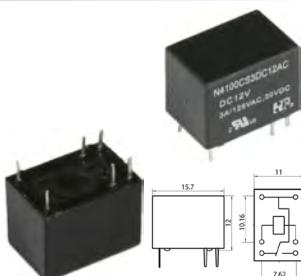
Type	SPDT
Vmax	380Vac / 75Vdc
Amax	30A (120Vac/14Vdc)
Size	25x20x20mm
Coil	12V 1.6W 24V 1.6W
Code	RL4120-CS12 RL4120-CS24



SPDT N1400 PCB

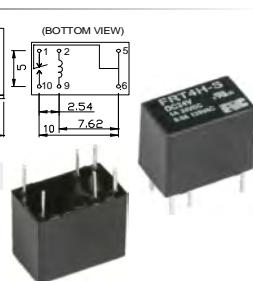
N1400S3DC

Type	SPDT
Vmax	220Vac / 60Vdc
Amax	3A
Size	16x10x11mm
Coil	12V 24V
Code	RL4140 RL4142



SPDT FRT4H PCB

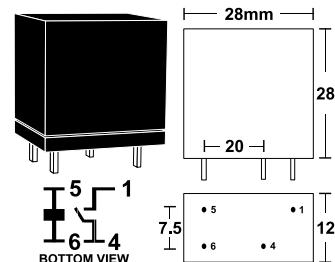
Type	SPDT
Vmax	125Vac / 60Vdc
Amax	500mA / 1A
Size	13x8x10mm
Coil	5V 12V 24V
Code	FRT4H-S5 FRT4H-S12 FRT4H-S24



SPST JQX-14FC RELAY

Compact PCB Mount
10A 30Vdc/240Vac

Type	SPST
Vmax	240Vac/30Vdc
Amax	10A
Size	28x28x12mm
Coil	12V 45mA 48V 10mA
Code	JQX14F12 JQX14F48



SPST JZC-32F

JZC-32FAS10DC12V0.45

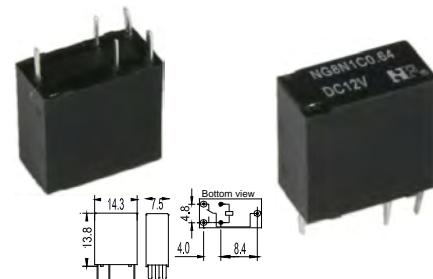
Type	SPST
Vmax	277Vac / 30Vdc
Amax	10A
Size	10x19x15mm
Coil	24V 200mW 12V 200mW
Code	RL4252 RL4250



SPDT MINI AUTOMOTIVE PCB

NG8N1C0.64

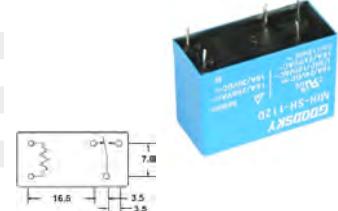
Type	SPST
Vmax	16Vdc
Amax	30Adc
Size	7.5x15x15mm
Coil	12V 640mW
Code	RL4333



SPDT MIH-SH PCB

MIH-SH-112D

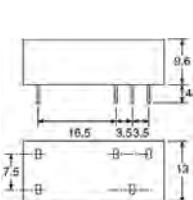
Type	SPST
Vmax	250Vac / 110Vdc
Amax	16A
Size	13x29x21mm
Coil	12V 720mW 24V 720mW
Code	RL4197 RL4199



BASE MI-SS PCB

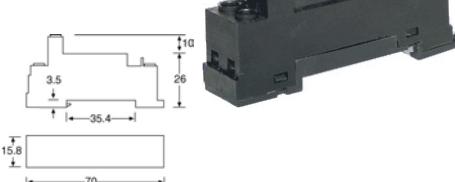
PCB Mount suits MI-SS Type SPDT Relay,

Type	MI-SS
Size	30x13x10mm
Code	RLB4182



BASE MI-SS DIN

Type	DIN Rail
Size	16x70mm
Code	RLB4320



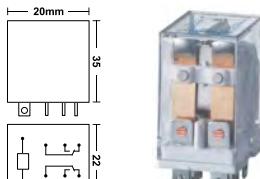


□ GP Relays

DPDT JQX-13F RELAY

Tag/PCB mount DPDT.
10A@28Vdc/250Vac.
Coil Power ~0.9-1.5W.

Amax	10A		
Size	20x35x22mm		
Type	DPDT		
Vmax	250Vac/28Vdc		
Tags	PCB	Tags 5mm	Tags 5mm
Coil	12Vdc	12Vdc	24Vdc
Code	JQX-13F12W	JQX-13F12	JQX-13F24
			JQX-13F240



RELAY BASE JQX-13F PCB

Type	PCB
Size	20x22mm
Code	RLB4316



RELAY BASE JQX-13F DIN

Type	DIN
Size	28x78mm
Code	13F-2C-D1



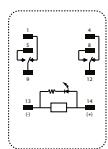
4PDT JZX-18FF RELAY

Type	4PDT		
Vmax	380Vac / 150Vdc	250Vac / 30Vdc	
Amax	7A	3A	
Size	22x28x35mm		
Coil	12VDC 1W	24VAC 1W	230VAC 1W
Code	JZX-18FF12	JZX-18FF24	4C-LT-A230



DPDT JZX-22F RELAY

Amax	5A	Replacement for the common JZX-22F relay.
Size	28x22x36mm	Fits into the 18FF-4C-D2 socket pin layout.
Type	DPDT	Degson brand with LED power indicator and mechanical test button
Vmax	250VAC/30VDC	
Tags	2.5mm	
Coil	12Vdc	
Code	RL-2CLTD12	



BASE JZX-18FF DIN

Type	DIN
Size	28x72mm
Code	18FF-4C-D2



AUTOMOTIVE HIGH-BEAM RELAY LOOM

WITH PUSH-BUTTON ON/OFF

30A /40A switching relay. ATC Fuse inline. Splits Heavy-Duty cable at the centre relay from the battery (0.5M) to the output (2M or 3M) a DTP Deutsch 2 pin plug, and another lead (3M) to the dash with On/Off switch and LED indicators.

Length	3M	2M
Amax	30A	30A
Code	WK001	WK002



□ Automotive

SPDT AUTOMOTIVE 30A RELAY

Coil	12V 2W	Common Relay
Type	SPDT	6.35mm Tags Panel
Vmax	75Vdc	mount Weather proof
Amax	30A	Automotive, etc. 12V 30A
Size	30x30x30mm	
Code	TW3415	



CAR RELAY WITH INBUILT FUSE

Universal Auto Relay 4 Pin DC 12V 30A
With built-in fuse socket and mounting tag
Includes 1x 30A blade type automotive fuse

Code	TW4330
------	--------



AUTOMOTIVE RELAY SOCKET

SOLDER TERMINALS

Code	TW3417
------	--------

WIRING HARNESS

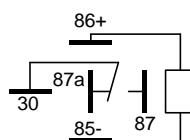
Code	TW3416
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SPDT AUTOMOTIVE 60A RELAY

9.5mm & 6.3mm Terminals NVF4-4C-Z60a

Coil	12V 1.8W
Type	SPDT
Vmax	75Vdc
Amax	60A
Size	29x29x27mm
Code	TW3460



COPPER TERMINALS

Code	TW1134
------	--------



AUTOMOTIVE RELAY BASE WITH FLYLEAD

Cradle designed for use with automotive relays fitted with female spade connectors.
Suits TW3460 relay with 9.5mm and 6.5mm terminals. Fitted with 180mm flylead.

Code	TW4326
------	--------



12V 15A SPST RELAY PRE-WIRED

This is a 12V 15A Contact Rated Universal Switching Relay. The relay is contact closed when power is applied.

Code	REL01LOOM
------	-----------



AUTOMOTIVE HIGH-BEAM RELAY LOOM DUAL

WITH DUAL ON/OFF PUSH-BUTTONS

2x 30A ATC Fuse inline. 2x 60A switching relays. Splits Heavy-Duty cable to battery 0.5M, to 3M bare end, and 3M lead to the remote On/Off switch with LED indicators.

Amax	30A x2
Length	3M
Code	WK003





Electronic Components

□ Knobs

KNOBS "CHICKEN HEAD"

Colour	Code
Red	KB010
White	KB050
Blue	KB100
Yellow	KB150
Ivory	KB200
Black	KB250
Dark Brown	KB300
Green	KB350
Mint	KB400
Maroon	KB450
Orange	KB500
Hot Pink	KB550
Purple	KB600
Silver	KB650
Light Brown	KB700



KNOBS BLACK

MATCHING EQUIPMENT STYLE

6.35mm shaft, Grub screw fixing,
Same style, different sizes.

Size	Code
19x16mmØ	KB7760
16x20mmØ	KB7762
20x24mmØ	KB7764
19x35mmØ	KB7766



PUSH ON - METRIC

Suit 9mm mini potentiometer

Base	Top	Height	Code
15mmØ	11mmØ	14mm	KB7770



KNOBS COLOUR

PUSH ON STYLE

6.35mm shaft, 18x20mmØ

Colour	Code
RED	KB7705
YELLOW	KB7713
BLACK	KB7707
WHITE	KB7715
BLUE	KB7709
GREY	KB7717



KNOB SKIRT

SKIRT WITH NUMBER 1-10

6.35mm shaft, Grub screw
fixing 23.5x36mmØ

Code
KB7549



KNOB BRUSHED ALUMINIUM

BRUSHED ALUMINIUM

High quality brushed aluminium finish.
6.35mm shaft, 14x22mmØ

Code
KB7022



KNOB CLASSIC

BLACK PLASTIC ALUMINIUM INSERT

6.35mm shaft, 15x27mmØ

Code
KB7740



KNOBS & BUTTONS

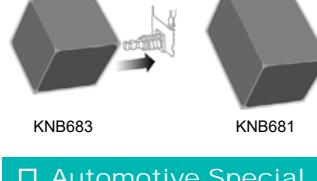
Size	Shaft	Code
5mmØ	2.5mmØ	CP1481
7.8mmØ	2.9mmØ	CP1403
9.5mmØ	2.9mmØ	CP1399
10.7mmØ	3.8mm ²	CP1138
13mmØ Collar	2.9mmØ	NT1300
10x10mmØ	2.8mm ²	KNB683
10x10x10mm	2.8mm ²	KNB681
15x10x10mm	2.8mm ²	KNB682



KNB683

KNB681

KNB682



□ Automotive Special

ENGINE START BUTTON

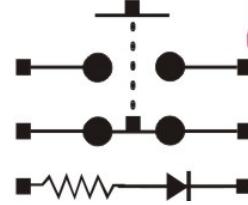
N/C & N/O MOMENTARY

Push Start Ignition Switch for Racing Sport with LED indicator. N/O, N/C and indicator light all three separate coloured (Blue, Purple & Black) connection points. Widely used for vehicle DIY. 12VDC 20A. Size: 85 x 33 x 30mm. 12VDC 20A. Size: 85 x 33 x 30mm.



28mmØ

Colour	Code
Red	SW402RD
Blue	SW402BU



CUT-OFF SWITCH

Extra Heavy Duty battery Cut Out Switch with removable key so you can take it with you to prevent unauthorized use, safety, etc.

12V/24V 100A

110mm tall, 60mm Diam.
Removable key power switch.

60V 400A

123mm tall, 118x66mm base.
Removable key power switch.

Code
SW401

Code
SW400





□ Tact Switch

TACT SWITCH OEM

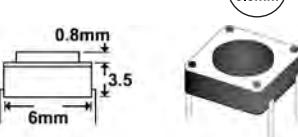
Samsung Akai etc.
Base 3.5x6x6mm
Knob height
Choice:

Knob Code
0.5mm SW250
1.5mm SW9367



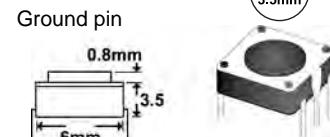
TACT SWITCH 0.8mm

Code
SW172



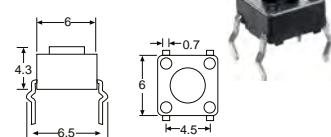
TACT SWITCH 0.8mm

Code
SW176
Ground pin



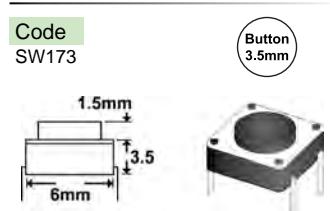
TACT SWITCH 0.8mm

Code
SW1120



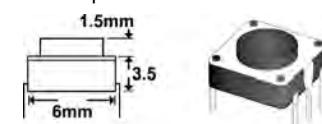
TACT SWITCH 1.5mm

Code
SW173



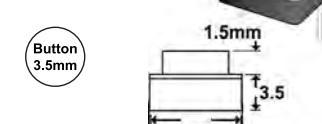
TACT SWITCH 1.5mm

Code
SW177
Ground pin



TACT SWITCH MID-PINS

Code
SW79



TACT SWITCH LARGE

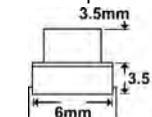
Large 12mm base
50mA 12V
Code
SW1125



TACT SWITCH 3.5mm

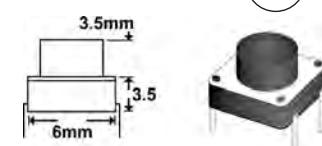
Code
SW178

Ground pin



TACT SWITCH 3.5mm

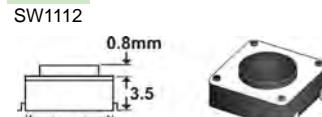
Code
SW174



TACT SWITCH SMD

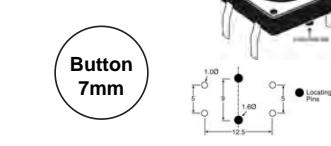
Above mount
0.8mm Button

Code
SW1112



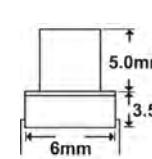
TACT SWITCH LARGE

Code
SW1126



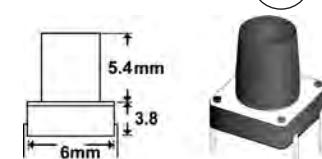
TACT SWITCH 5.0mm

Code
SW1124



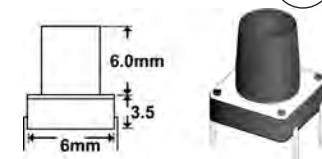
TACT SWITCH 5.4mm

Code
SW1409



TACT SWITCH 6mm

Code
SW175



TACT SWITCH LARGE

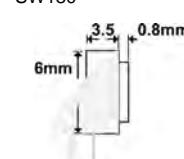
5x10x10mm with
4.0mmØ button
0.5mm tactile.

Code
SW260



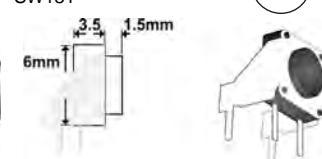
TACT SWITCH R/A 0.8mm

Code
SW180



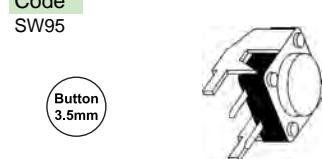
TACT SWITCH R/A 1.5mm

Code
SW181



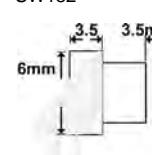
TACT SWITCH R/A 1.5mm

RIGHT ANGLE 1.5mm
Code
SW95



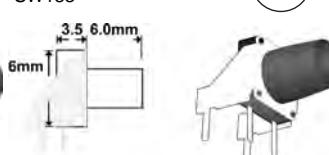
TACT SWITCH R/A 3.5mm

Code
SW182



TACT SWITCH R/A 6mm

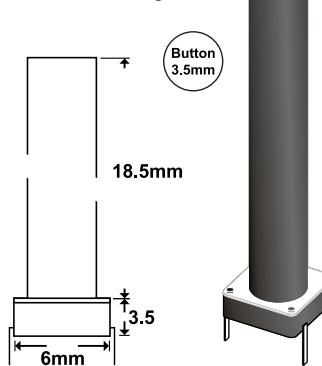
Code
SW183



TACT SWITCH 18.5mm

Code
SW1119

22mm Total height



LEVER SWITCH 7x4mm

Sony 1-762-621-21

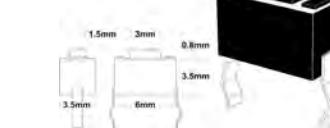
Code
SW2121



TACT SWITCH 0.8mm

Suit car radios
and home audio.

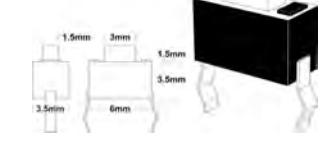
Code
SW520



TACT SWITCH 1.5mm

Suit Philips and Sony audio.

Code
SW511



TACT SWITCH 10mm

Momentary
Single pole.
10x10mm
Type Code
2 Pin SW155





Electronic Components

Micro Switch

MICRO-SWITCH

Single Pole Double Throw
Power 240Vac 16A

Power	Tags	Code
16A	4.8mm	MS107
16A	6.3mm	MS106

28x16x10mm



LIGHT PRESSURE

Tags	Code
4.8mm	MS298
6.3mm	MS301



MICRO-SWITCH & LEVER

Power	Tags	Code
15A	6.3mm	SW1600
10A	4.8mm	MS199
16A	4.8mm	SW5112



LIGHT PRESSURE & LEVER

Tags	Code
4.8mm	SW5112



ROLLER-LEVER 14mm

Roller wheel mechanical triggering
14mm lever short length 10A 250Vac

Tags	Code
4.8mm	SWM424

28x16x10mm

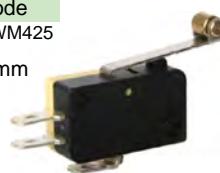


ROLLER-LEVER 28mm

Roller wheel mechanical triggering
28mm lever 3A 250V 6A 110V

Tags	Code
4.8mm	SWM425

28x16x10mm



MICRO-SWITCH 20mm

EXTRA-SMALL
Single Pole Double Throw
4mm Contacts

Power	5A/250Vac
Lever	15mm
Code	SWM400

20x10x6.5mm



Push Switch

PIN SWITCH

Push to break. Bullet.
7.5mm mounting hole.
Heavy Duty Type.

Code
SW5145



PIN SWITCH

Push to break. Bullet.
7.5mm mounting hole.
Adjustable height.

Code
SW5144



TAMPER SWITCH NC

NC Normally Closed
(Push to open.) 20mm

Hole	20mmØ
Type	NC
Code	SWP800



TAMPER SWITCH NO

NO Normally Open
(Push to close) 20mm

Hole	20mmØ
Type	NO
Code	SWP801



VAN DOOR SWITCH

For use when installing central locking on vehicles with sliding doors such as passenger & commercial vans.
82(W) x 34(D) x 15(H) mm
70(W) x 26(D) x 52(H) mm

Code
VANSW



Tilt Switch

BALL TILT SWITCH

Movement triggering ±30°
10mA 24Vdc 7x4mmØ

Code
TS3073



Push Switch

DPDT PUSH SWITCH

Push-ON / Push-OFF	3A 125VAC 6mm
Panel mount.	DPDT
Hole	6mmØ 6mmØ
Power	3A 125Vac 3A 125Vac
Type	DPDT DPDT
Colour	Red Black
Code	MS197RD MS197BK



SPDT MOMENTARY TAG

Momentary w/ black knob	2.9mm Shaft
Hole	6mmØ
Power	0.5A 250Vac
Type	SPDT
Code	SW1391



DPDT MOMENTARY

3A 125VAC 6mm	Panel mount.
Hole	6mmØ
Power	3A 125Vac
Type	DPDT
Colour	Red Black
Code	MS300R MS300B



SPDT MOMENTARY PCB

Momentary w/ black knob	2.9mm Shaft
Hole	6mmØ
Power	0.5A 250Vac
Type	SPDT
Code	SW1393



SPDT MOMENTARY PCB

SPDT PCB Mount	2.5mm Shaft
Hole	4.5mmØ
Power	1A 120Vac
Type	SPDT
Code	SW1493



SPDT MOMENTARY PCB

Miniature. With knob.	0.5A 250Vac/28Vdc
Power	0.5A 250Vac
Type	SPDT
Code	SW1398



SPDT MOMENTARY PCB

90° Mount	20mA 20V
Panel mount.	2.5mm Shaft
Hole	4.5mmØ
Power	1A 120Vac
Type	SPDT
Code	SW1498



DPDT MOMENTARY TAG

Miniature. With knob.	0.5A 250Vac/28Vdc
Power	0.5A 250Vac
Type	DPDT
Code	SW1392



PUSH BUTTON KNOBS

Round Shaft	10mm
Replacement Knobs	10mm
Shaft	2.9mmØ 2.5mmØ 2.9mmØ
Size	9.5mmØ 5mmØ 7.8mmØ
Code	CP1399 CP1481 CP1403



DRESS NUT & BUTTON

Suit 139X Push Switch	7.8mmØ Knob
Shaft	2.9mmØ
Hole	6mm
Code	NT1300





□ Push Switch

SPST MOMENTARY

1.5A 250V



FOOT SWITCH SPST

SPST CARLING

Hole 12mmØ
Power 3A 125Vac
Type SPST
Code SWT110P



SPST MOMENTARY

Momentary - Illuminated

Illuminated LED Red
Hole 16mmØ
Power 0.5A
250Vac
Type NO
Code SW1086



SPST MOMENTARY

Momentary SPST

Illuminated LED Red
Hole 9mmØ
Power 0.5A
250Vac
Type NO
Code SW1063



DPDT ILLUMINATED

DPDT momentary switch with blue LED illumination.

Illuminated	12V Blue
Hole	16mmØ
Power	3A 220Vac
Type	DPDT
Code	SW0933

FOOT SWITCH DPDT

DPDT CARLING

Hole 12mmØ
Power 3A 125Vac
Type DPDT
Code SWP316



SPST ILLUMINATED

Push On / Push Off

Illuminated LED Red
Hole 16mmØ
Power 1.5A
250Vac
Type SPST
Code SW1087



SPST PUSH BUTTON

NORMALLY CLOSED

Power 0.3A 125Vac
Code SWM202



NORMALLY OPEN

Power 0.3A 125Vac
Code SWM201

DPDT ILLUMINATED

DPDT momentary red LED solder tail pushbutton.

Illuminated	12Vdc Red
Hole	16mmØ
Power	3A 250Vac
Type	DPDT
Code	SW0930

FOOT SWITCH TOGGLE

Heavy Duty Stomp 6A
250V DPDT Kick On
Kick Off Hole 12mm

Hole 12mmØ
Power 6A 250Vac
Type DPDT
Code SWP328



SPST ILLUMINATED

Push On / Push Off

Hole 16mmØ
Power 1.5A 250Vac
Type NO
Code SW1088



SPST PUSH BUTTON

MOMENTARY 12mmØ NORMALLY OPEN

Power 3A 250Vac
Code SWM203



DPDT ILLUMINATED

DPDT Push-On/Push-Off With 2 pin Blue LED

Illuminated	12V Blue
Hole	16mm
Power	3A 220Vac
Type	DPDT
Code	SW0937

FOOT SWITCH TOGGLE

Push On / Push Off
DPDT 4A 250Vac

Hole 12mmØ
Power 4A 125Vac
Type DPDT
Code SW1150



SPST ILLUMINATED

Push On / Push Off

Illuminated LED Green
Hole 16mmØ
Power 1.5A
250Vac
Type SPST
Code SW1089



SPST PUSH BUTTON

MOMENTARY 12mmØ NORMALLY OPEN

Power 3A 250Vac
Code SWM205



DPDT ILLUMINATED

DPDT Push-On/Push-Off With 2 pin Red LED

Illuminated	12Vdc Red
Hole	16mmØ
Power	3A 220Vac
Type	DPDT
Code	SW0934

FOOT SWITCH PUSH

DPDT Momentary
4A 250Vac

Hole DPDT
Power 4A 250Vac
Type DPDT
Code SW1152



SPST MOMENTARY

SPST Vandal Resistant

Hole	20mmØ
Power	2A 250Vac
Type	Normally Open
Code	SW0950

FOOT SWITCH TOGGLE

LATCHED 3 Pole - 2 Throw
Suit Guitar Pedals, etc.
Fender, etc. Hole 12mm

Hole 12mm
Power 4A 125Vac
Type 3PDT
Code SW3PDT



CAM-LOCK

Physical key lock rotates the flange by 90 with key. 19mm hole.

Arm Depth Code
33mm 12mm AKL101
30mm 20mm LOCK19
43mm 20mm LOCK20
46mm 15mm LOCK21



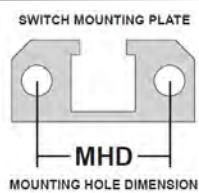


Electronic Components

□ Push Power

POWER SWITCH PUSH TYPES

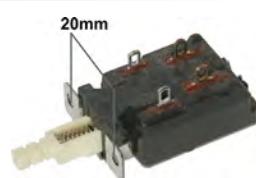
Old school power push-on / push-off switches originally designed for TV and other 240Vac appliances.
Can be adapted to other projects.



20MM BRACKET PUSH SWITCH

4A 250V
DPST
MHD 20mm

Code
DS685



23MM BRACKET PUSH SWITCH

Code
SWP618



PCB MOUNT PUSH SWITCH

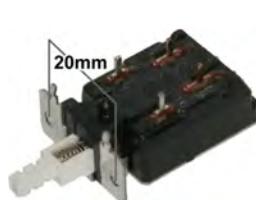
Code
SWP581



20MM BRACKET PUSH SWITCH

4A 250V DPST
PCB mount.
MHD 20mm

Code
DS686



18MM BRACKET PUSH SWITCH

Code
SWP580



PCB MOUNT PUSH SWITCH

Code
SWP532



DPST PCB PUSH SWITCH

4822-276-14024

Code
SWP4024



NO BRACKET PUSH SWITCH

Code
SWP575



18MM BRACKET PUSH SWITCH

Code
SWP658



DPST PCB PUSH SWITCH

PCB Mount DPST

Code
SWP4026



18MM BRACKET PUSH SWITCH

Code
SWP650



PCB UNIVERSAL SUIT AKAI

Standard Profile
As below but 11mm

Code
SWP394



GRUNDIG PUSH SWITCH

With remote function.

Code
SWP514



23MM BRACKET PUSH SWITCH

Code
SWP589



PCB UNIVERSAL SUIT AKAI

With height extension 17mm.

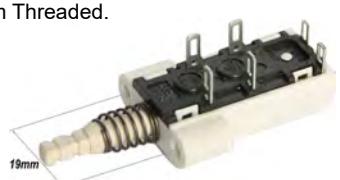
Code
SWP393



19MM BRACKET PUSH SWITCH

DPST with Tags & Remote reset.
MHD 19mm Threaded.

Code
SWP640



23MM BRACKET PUSH SWITCH

DPST with momentary (reset)

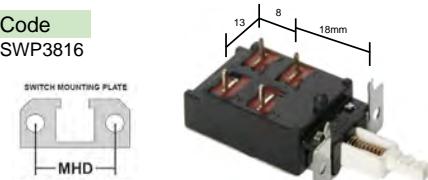
Code
SWP641



20MM BRACKET PUSH SWITCH

482227613816 PHILIPS

Code
SWP3816



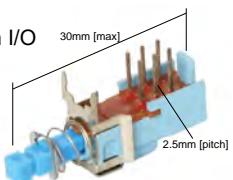


Push Power

MINI PUSH DC

2A 12VDC PCB Mount
Double Pole Double
Throw Miniature Push I/O

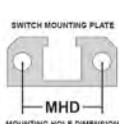
Code
SWP150



20MM BRACKET PUSH SWITCH

10A 250V SPDT.

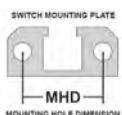
Code
DS680



20MM BRACKET PUSH SWITCH

4A 250VAC

Code
SWP952



SONY/JVC TYPE

With remote.
MHD 20mm Threaded

Code
SWP515



COMPUTER - MOMENTARY

MAINBOARD CONNECTOR

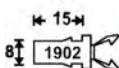
Code
SWP680



DOOR CATCHER SMALL

Push close, Push open

Code
DL1902



SQUARE SHAFT KNOB ROUND

Size
10x10mmØ Code
KNB683



SQUARE SHAFT KNOB SQUARE

Size
10x10x10mm Code
KNB681



SWITCHED POTENTIOMETERS

Potentiometer with Pull-Out Two pole
Single throw 240VAC switch.

Type	Value	Code
Log	5K	VRS105
Log	20K	VRS120
Linear	50K	VRS150
Log	100K	VRS100



SQUARE SHAFT KNOB WIDE

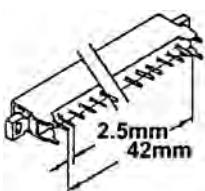
Size
15x10x10mm Code
KNB682



Slide Switch

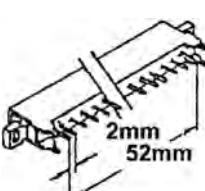
18 PIN REC/PLAY SWITCH

Code
RPS20



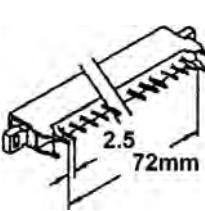
27 PIN REC/PLAY SWITCH

Code
RPS25



30 PIN REC/PLAY SWITCH

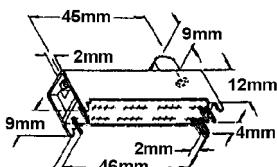
Code
RPS30



8P4T SLIDE SWITCH

8 Pole 4 Position 40 Pin

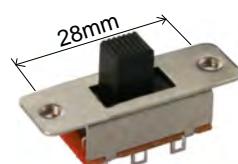
Code
SW90



DPDT SLIDE SWITCH

28mm MOUNTING

Code
SW30



MAINS POWER SWITCH

See POWER Section





Electronic Components

□ Toggle Switch

MINIATURE PCB

Extra small toggle Vertical mount

Hole	4.5mm
Power	1.5A 250Vac
Shaft	10mm
Type	SPDT
Code	SW1415



SPDT PCB

2A 250Vac/28Vdc

Hole	6mm
Power	3A 250Vac
Shaft	12mm
Type	SPDT
Code	SW1315



DPDT TAG

3A 250V DPDT

Hole	5.8mm
Power	3A 250Vac
Shaft	12mm
Type	DPDT
Code	SWT117



MINIATURE PCB

Extra small toggle Right Angle Mount

Hole	4.5mm
Power	1.5A 250Vac
Shaft	10mm
Type	SPDT
Code	SW1421



SPDT MOMENTARY PCB

SPDT Momentary

Hole	6mm
Power	3A 250Vac
Shaft	12mm
Type	DPDT (MOM)
Code	SW1316



DPDT CENTRE-OFF TAG

Centre off 3A 250V DPDT

Hole	5.8mm
Power	3A 250Vac
Shaft	12mm
Type	DPDT (C)
Code	SWT118



MINIATURE PCB

Extra small toggle Horizontal Mount

Hole	4.5mm
Power	1.5A 250Vac
Shaft	10mm
Type	SPDT
Code	SW1425



SPDT CENTRE-OFF PCB

2A 250Vac/28Vdc SPDT

Hole	6mm
Power	3A 250Vac
Shaft	12mm
Type	SPDT (C)
Code	SW1332



DPDT CENTRE-OFF PCB

Snap fit 20x13mm 3A-250V

Hole	5.8mm
Power	3A 250Vac
Shaft	12mm
Type	DPDT (C)
Code	SWT118P



SPDT TAG SUB-MINI

1.5A 250V SPDT

Power	3A 125Vac
Type	SPST
Shaft	10mm
Hole	4.8mm
Code	SWT102



SPDT C-OFF MOMENTARY PCB

2A 250Vac/28Vdc

Hole	6mm
Power	3A 250Vac
Shaft	12mm
Type	SPDT (MC)
Code	SW1333



DPDT BIG SHAFT TAG

Oversized Knob

Hole	12mm
Power	3A 250Vac
Shaft	13mm
Type	DPDT
Code	SW1346



DPDT TAG SUB-MINI

1.5A 250V DPDT

Hole	4.8mm
Power	3A 125Vac
Shaft	10mm
Type	DPDT
Code	SWT106



SPDT C-OFF MOMENTARY TAG

Centre Off, Momentary Up, Toggle Down

Hole	6mm
Power	3A 250Vac
Shaft	12mm
Type	SPDT (TCM)
Code	SW1340



DPDT PADDLE TAG

Snap Fit

Hole	12x15mm
Power	3A 250Vac
Shaft	Paddle
Type	DPDT
Code	SW1250



SPDT CENTRE-OFF TAG

Centre off 3A 250V SPDT

Hole	5.8mm
Power	3A 250Vac
Shaft	12mm
Type	SPDT (C)
Code	SWT113



DPDT PCB

Toggle Switch

Hole	6mm
Power	3A 250Vac
Shaft	10mm
Type	DPDT
Code	SW1350



SWITCH COVER

6mm thread only, Waterproof IP67

Hole	6mm
Shaft	10mm
Type	IP67
Code	CVR1302





□ Toggle Switch

SPST CLASSIC

1.5A 250V SPST

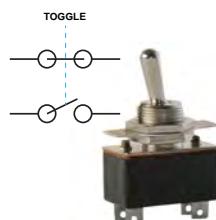
Hole	12mm
Power	2A 250Vac
Shaft	12mm
Type	SPST
Code	SWT121



DPST* CLASSIC

*Separate Poles

Hole	12mm
Power	2A 250Vac
Shaft	12mm
Type	DPST
Code	SWT123



SPST CARLING

SPST CARLING

Hole	12mm
Power	3A 250Vac
Shaft	15mm
Type	SPST
Code	SWT110



DPDT CLASSIC

1.5A 250V DPDT

Hole	12mm
Power	6A 125Vac
Shaft	12mm
Type	DPDT
Code	SWT125



DPDT CENTRE-OFF SCREW

Centre off 3A 250V DPDT

Hole	12mm
Power	8A 250Vac
Shaft	17mm
Type	DPDT
Code	SWT127



SWITCH COVER CLASSIC

Suit "Classic" Type (Metric threaded 12mm)
Up to 17mm shaft. 12mm hole. IP67

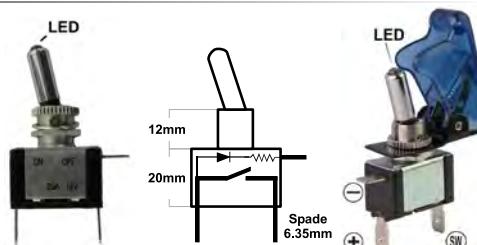
Hole	12mm
Shaft	17mm
Type	Classic
Code	CVR1034



ILLUMINATED

SPST 12V 20A 60x30x16mm

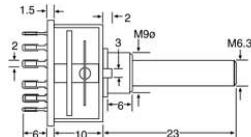
Colour	Red	Blue	Green
Hole	12mmØ	12mmØ	12mmØ
Power	12V 20A	12V 20A	12V 20A
Shaft	20mm	20mm	20mm
Type	SPST	SPST	SPST
Code	SW403RD	SW403BU	SW403GN



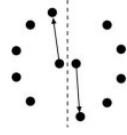
□ Rotate Switch

SOLDER TAGS

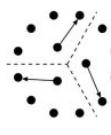
1/4" (6.35mm) Metal Shaft 22mm
8.8mm Hole. Break to make.



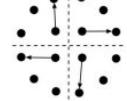
Type 2P 5T
Code SWR2205



Type 3P 4T
Code SWR2304



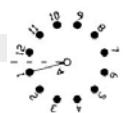
Type 4P 3T
Code SWR2403



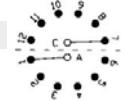
PCB MOUNT

1/4" (6.35mm) Half moon 30mm
9.2mm Hole. Break to make.

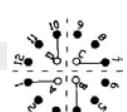
Type 1P 12T
Code SWR1112



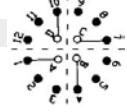
Type 2P 6T
Code SWR1206



Type 3P 4T
Code SWR1304



Type 4P 3T
Code SWR1403



POT & SWITCH

Potentiometer with
pull out two pole
AC rated switch.

Type	Value	Code
Log	5K	VRS105
Log	20K	VRS120
Linear	50K	VRS150
Log	100K	VRS100





Electronic Components

□ Rocker Switch

DPDT ROCKER SWITCH

Power	3A 250Vac
Type	DPDT
Hole	12mmØ
Code	SW3180



SPST ROCKER SWITCH

Power	10A 250Vac
Type	SPST
Hole	28x14mm
Code	SW3225



SPST ILLUMINATED

Illuminated	12V LED Red
Power	30A 12Vdc
Type	SPST
Hole	12mmØ
Code	SW3248



SPDT ROCKER SWITCH

Type	SPST SPDT
Power	6A 240Vac
Hole	20x13mm
Code	SW210 SW215



SPST ROCKER SWITCH

Illuminated	Neon 250Vac
Power	10A 250Vac
Type	SPST
Hole	22x12mm
Code	SW3229



SPST IP65

Illuminated	12Vdc Red
Power	6A 250Vac
Type	SPST
Hole	20mmØ
Code	SW3185



DPST ROCKER SWITCH

Power	4A 250Vac
Type	DPST
Hole	20x13mm
Code	SW200



SPST ILLUMINATED

Illuminated	250Vac Neon
Power	10A 250Vac
Type	SPST
Hole	28x14mm
Code	SW3228



SPST ROUND

Power	6A 250Vac
Type	SPST
Hole	20mmØ
Code	SW3188



DPST ILLUMINATED

Illuminated	250Vac Green
Power	4A 250Vac
Type	DPST
Hole	20x13mm
Code	SW205



DPDT ROCKER

Power	10A 250Vac
Type	DPDT
Hole	30x22mm
Code	SW220



SPST SQUARE

Power	6A 250Vac
Type	SPST
Hole	20mmØ
Code	SW3191



DPST ROCKER

Power	5A 250Vac
Type	DPST
Hole	20x22mm
Code	SW202



DPDT ILLUMINATED

Illuminated	250Vac Red
Power	10A 250Vac
Type	DPDT
Hole	30x22mm
Code	SW225



SPST SQUARE

Illuminated	LED Red
Power	6A 250Vac
Type	SPST
Hole	20mmØ
Code	SW3190



COMPUTER POWER

PC XT AT
Toggle Switch

Power	10A 250Vac
Type	DPST
Hole	25x25mm
Code	SW203



OVERLOAD PROTECTED

Switch kicks Off when current exceeded.
Simply switch back on.
Thermal Slow-Blow.

Amps	Code
3A	PMB3
5A	PMB5
8A	PMB8
10A	PMB10
15A	PMB15



SPDT ROCKER SWITCH

ON/OFF/ON TYPE

Type	SPDT
Power	16A 250Vac
Hole	27x11mm
Code	SW435



INDUSTRIAL ELECTRICAL CONTROL BUTTONS LAY5 (XB2)





□ Carling Automotive

CARLING-SWITCH

Premium Quality
Black Plastic
Tactile feel
Large Format
21x36mm Hole

6.3mm Tags
12Vdc 20Amp
24Vdc 15Amp



CARLING-SWITCH SPST TOGGLE

SPST TOGGLE

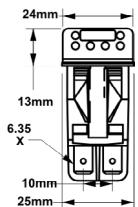
No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/Off x1

Type ON/OFF
Code SW-V1BA



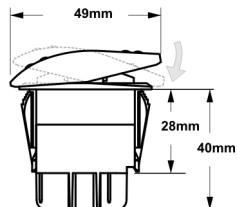
HIGH-CURRENT

20A Long Life
150,000 Cycles
-40°/+85° temp
Fully sealed
Weather resistant
"No lubricant"
Separate roller
Actuator arm



ULTRA-RELIABLE

Control Panels
Automotive dash
Modern styled
Tactile feel positive
snap action motion
Quality materials
Carling switch



CARLING-SWITCH DPST TOGGLE

DPST TOGGLE

No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/Off x2

Type ON/OFF
Code SW-VABA



CARLING-SWITCH SPDT PUSH

MOMENTARY ON

Centre Off 12Vdc
20A 24Vdc 15A
M-On/Off/M-On x1

Type ON/OFF/ON
Code SW-V8BA



RED-BAR

SPST TOGGLE

12Vdc Lamp
Single Bar Indicator
Toggle On/Off x1

Type ON/OFF
Code SW-V1DAB1



CARLING-SWITCH SPDT TOGGLE

SPDT TOGGLE

No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/On x1

Type ON/ON
Code SW-V4BA



CARLING-SWITCH DPDT PUSH

MOMENTARY ON

Centre Off 12Vdc
20A 24Vdc 15A
M-On/Off/M-On x2

Type ON/OFF/ON
Code SW-VLBA



RED-BARS

SPDT TOGGLE

Centre Off 12Vdc
Lamps Dual Indicator
Toggle On/Off/On x1

Type ON/OFF/ON
Code SW-V6DAD



CARLING-SWITCH SPDT TOGGLE

SPDT TOGGLE CENTRE-OFF

Centre OFF 12Vdc
20A 24Vdc 15A
Toggle On/Off/On

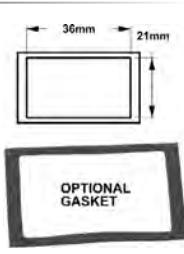
Type ON/OFF/ON
Code SW-V6BA



GASKET

Rubber foam
Weather resistant
Panel Seal
21x36mm I/D +
Surround

Code SW-GASKET



RED-SQUARE

12Vdc Lamp Single
Lamp Bright On
Toggle On/Off x1

Type ON/OFF
Code SW-V1DAB2



CARLING-SWITCH DPDT TOGGLE

DPDT TOGGLE CENTRE-OFF

Centre OFF 12Vdc
20A 24Vdc 15A
Toggle On/Off/On

Type ON/OFF/ON
Code SW-VJBA



SPST & LED

NOT CARLING

DPST Toggle ON/OFF
Indicator Lamp. 12V 16A

Colour	Code
Blue	SW001B
Red	SW001R



GREEN-SQUARE

DPST TOGGLE

Opaque white off
12Vdc Green LED
Toggle On/Off x1

Type ON/OFF
Code SW-VAD1





Electronic Components

□ Enclosures & Boxes

□ ABS

SEALED IP65

Supplied with neoprene lid sealing gasket. With the seal installed, these enclosures meet IP65 dust and hose proof standard. Six PCB mounting points are moulded into the enclosure base. Lid incorporates a recess for a lexan panel. Extra height for industrial type relays.

Suits	Code
105x105x57mm	CAS0360
165x105x78mm	CAS0362
250x200x95mm	CAS0363
250x200x130mm	CAS0364



MOUNTING
SOLUTIONS
AVAILABLE
SEE FEET...



SEALED IP65

Supplied with neoprene lid sealing gasket meet IP65 standard. PCB mounting points are moulded into the enclosure base.

Meets IP65 Dust- and Hose-proof standards

Brass screw thread inserts

Neoprene gasket seal

Moulded PCB mounting points

Manufactured from high impact ABS

High Temp' -40°C to +80°C

Size	Code
65x60x40mm	CAS0300
85x80x55mm	CAS0302
105x75x40mm	CAS0301
105x75x55mm	CAS0303
125x85x55mm	CAS0304
145x105x45mm	CAS0305
145x105x65mm	CAS0307
165x85x55mm	CAS0306
165x125x75mm	CAS0308
186x146x75mm	CAS0310
220x165x60mm	CAS0312
220x160x80mm	CAS0313



SEALED IP65 CLEAR LID ABS ENCLOSURE

Supplied with neoprene lid sealing gasket IP65 dust and hose proof. Supplied with a transparent lid. PCB mounting points are moulded into the enclosure base. These sturdy enclosures have 3mm thick walls and are rated to UL 94V-0 (-40° to 75°C). Not UV stabilised.

Meets IP65 Dust- and Hose-proof standards

Brass screw thread inserts

Neoprene gasket seal

Moulded PCB mounting points

Manufactured from high impact ABS

High Temp' -40°C to +80°C

Size	Code
65x60x40mm	CAS0320
85x80x55mm	CAS0322
105x75x40mm	CAS0321
105x75x55mm	CAS0323
125x85x55mm	CAS0324
145x105x45mm	CAS0325
165x125x75mm	CAS0328
165x85x55mm	CAS0326
186x146x75mm	CAS0330
220x160x80mm	CAS0333
220x165x60mm	CAS0332



POLYCARBONATE IP65

Popular mounting box as fits two standard power wall plates. Weather proof IP65

Size	Code
171x121x55mm	CAS0478
171x121x80mm	CAS6224



FLANGE MOUNT GREY

With mounting ears for surface mounting. In addition, they include a shallow recess on the base and lid to house a membrane or lexan panel. Moulded mounting posts are included in both the base and lid for securing PCBs.

Size	Code
80x60x30mm	CAS0119
80x60x40mm	CAS0120
125x80x35mm	CAS0121
125x80x50mm	CAS0122
125x100x60mm	CAS0124
175x125x70mm	CAS0132
200x150x70mm	CAS0136



FLANGE MOUNT BLACK

Compact plastic housing with mounting flanges. Some have pre-drilled entry holes.

Size	Hole	Code
66x85x31mm	12mmØ	CAS0210
64x36x21mm	Nil	CAS0206
70x42x27mm	Nil	CAS0208
67x112x36mm	Nil	CAS0211



CAS0210



CAS0211



ABS

JIFFY BOXES GREY

Manufactured from sturdy ABS plastic these boxes have a moulded PCB mounting design. Allows PCB's to be installed vertically, or snapped in horizontally without the use of PCB stand-offs.



Size	Code
83x54x30mm	CAS0155
130x67x42mm	CAS0153
158x95x53mm	CAS0151
198x113x62mm	CAS0152

JIFFY BOXES BLACK

Manufactured from sturdy ABS plastic these boxes have a moulded PCB mounting design. Allows PCB's to be installed vertically, or snapped in horizontally without the use of PCB stand-offs.



Size	Code
83x54x30mm	CAS0205
130x67x42mm	CAS0203
158x95x53mm	CAS0201
198x113x62mm	CAS0202

INSTRUMENT CASE

This professional series features solid ABS screw-together construction, internal PCB guides and an attractive rounded finish. Dust and moisture proof.

Size	Code
50x90x16mm	CAS0212
50x90x24mm	CAS0214
50x90x32mm	CAS0215
60x120x30mm	CAS0216
80x150x30mm	CAS0218



INSTRUMENT CASE

SNAP TOGETHER ABS HOUSING

A stylish range of 4 piece snap together, low profile, instrument cases. Each case has four faces which may be customised with screen printing or lexan. Internal PCB mounting posts are provided. Suitable for both handheld or desktop use. UL 94-HB



Size	Code
130x75x28mm	CAS0376
155x90x28mm	CAS0377
200x120x40mm	CAS0378

Diecast

FLANGE MOUNT IP66

Industrial grade heavy duty die cast boxes with flanged base for easy mounting & access. Sealing gasket included achieving IP66 rating making them ideal for mining, industrial, agricultural and marine use. Countersunk lid holes. Dimensions exclude flanges.

Size	Code
89x35x30mm	CAS0420
114x64x30mm	CAS0421
114x64x55mm	CAS0422
114x89x55mm	CAS0423
120x100x35mm	CAS0424
171x121x55mm	CAS0427
222x146x55mm	CAS0429



FLANGE MOUNT IP65

Heavy duty die cast boxes with flanged lid for easy mounting. They offer a high degree of RFI shielding and are suitable for industrial or automotive use. Available in 6 different sizes for a multitude of applications. All flange and lid holes are countersunk. Dimensions listed exclude flanges.

Size	Code
51x51x32mm	CAS0430
111x60x30mm	CAS0432
110x83x45mm	CAS0434
121x121x59mm	CAS0438
187x118x57mm	CAS0442
191x191x67mm	CAS0444



DIECAST ALUMINIUM BOX

Classic sturdy boxes offer strength and a high degree of RFI shielding for your projects. With vertical slots for accepting PCB's. Ingress protected with internal raised lip but no rubber seal. IP52

Size	Code
98x50x25mm	CAS0451
118x60x40mm	CAS0453
119x94x35mm	CAS0454
188x112x60mm	CAS0455





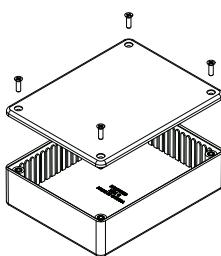
Electronic Components

□ Hammond

HAMMOND 1591 PLASTIC ENCLOSURE IP54

Integral card guides accept 1.5 mm thick circuit boards. Lap joint construction provides protection against the ingress of dust and splashing water up to IP54. Molded from economical black plastic. Black #4 x 12mm Phillips screws.

Length	Width	Height	Code
85	56	21	1591MSBK
85	56	35	1591LSBK
100	50	21	1591ASBK
112	62	27	1591BSBK
120	65	36	1591CSBK
150	80	46	1591DSBK
191	110	57	1591ESBK



www.hammondmfg.com

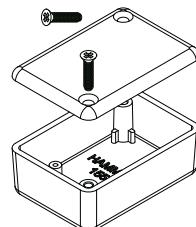
HAMMOND 1551 ABS ENCLOSURES MINIATURE

PLAIN OR FLANGED LIDS. IP54

Molded in black general purpose ABS plastic. Satin texture finish. Complete with lid and two self tapping screws. Ingress Protection IP54. Black plated screws are colour matched. 2 PCB standoffs moulded into the base. Lap joint construction protects against the ingress of dust and splashing water IP54.

PLAIN LID BLACK

Length	Width	Height	Code
50	35	15	1551FBK
50	35	20	1551GBK
60	35	20	1551HBK
80	40	15	1551LBK
80	40	20	1551KBK



FLANGED LID BLACK

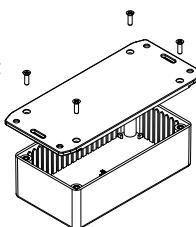
Length	Width	Height	Code
35	35	15	1551NFLBK
35	35	20	1551MFLBK
40	40	15	1551QFLBK
50	35	20	1551GFLBK
50	50	20	1551RFLBK
60	35	20	1551HFLBK
80	40	15	1551LFLBK
80	40	20	1551KFLBK



HAMMOND 1591 PLASTIC IP54 WITH FLANGE LID

Ideally suited for mounting printed circuit boards. Integral card guides accept 1.5 mm PCB cards. Lap joint construction provides protection against dust accumulation and splashing water to IP54. Molded from economical black plastic. Lid is secured with #4 x 0.5" Phillips screws. Flanged lid is perfect for wall or shelf mounting. Lid also contains PC board standoffs.

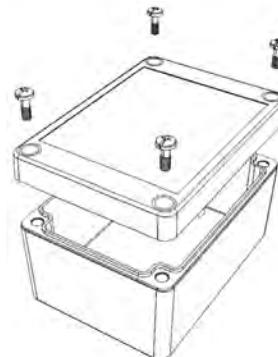
Length	Width	Height	Code
85	56	21	1591MSFLBK
100	50	21	1591ASFLBK
112	62	32	1591BSFLBK
120	65	36	1591CSFLBK
150	80	46	1591DSFLBK
191	110	57	1591ESFLBK



HAMMOND RP ABS ENCLOSURES IP65

RITEC - WATER TIGHT & UL94HB

Light grey, general purpose ABS plastic watertight enclosure IP65. Material carries a UL flammability rating of UL94HB. Gasket lid with two-piece "tongue and groove" construction provides protection against access of oil, dust and water. Lid includes smooth recessed area for membrane, label or silk-screen and is secured with stainless steel machine screws (included), threaded into integral stainless steel bushes.



Length	Width	Height	Code
105	75	55	RP1095
166	86	55	RP1175

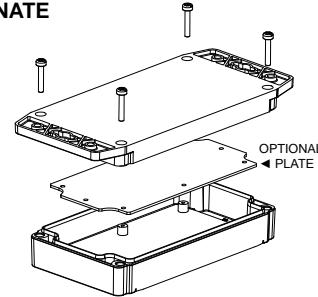


HAMMOND 1555 FLANGE MOUNT

WATERTIGHT IP67 POLYCARBONATE

1555 is a series of rugged IP67 sealed units designed for wall or chassis mounting PCB-based or DIN-rail based equipment in harsh industrial environments or outdoor applications.

Polycarbonate. Rubber grommet sealed lid. Stainless steel fittings.



Length	Width	Height	Code
120	66	42	1555C2F22GY
120	91	37	1555F2F17GY
120	91	62	1555F2F42GY
159	91	37	1555J2F17GY
159	91	62	1555J2F42GY
180	120	37	1555H2F17GY
120	120	62	1555NF42GY



INTERNAL PLATE

Galvanized 16 gauge steel panels for mounting components, shielding, etc. Mounts into plastic standoffs in the lid or base of the enclosure using the four included screws.



Length	Width	Height	Suits	Code
108	52	1.63	1555C2F	1555CFPL
108	76	1.63	1555F2F	1555FFPL
148	76	1.63	1555J2F	1555JFPL

HAMMOND MANUFACTURING

MORE PRODUCTS AVAILABLE

Can be ordered in with short delay. Please visit their website for details: www.hammondmfg.com





HAMMOND 1593 INSTRUMENT ENCLOSURE

HAND-HELD OR BENCHTOP

Ergonomically designed for a comfortable fit into the user's hand. Recessed top for membrane display or keypad. Lap joint IP54. Available with or without removable end panels. Moulded in black ABS plastic with a satin texture.

Length	Width	Height	Removable Panels	Battery Door	Code
66	66	28	0	No	1593JBK
66	66	28	2	No	1593KBK
92	66	28	2	No	1593LBK
112	66	28	1	Yes	1593QBK
140	66	28	1	Yes	1593YBK



HAMMOND 1599 INSTRUMENT ENCLOSURE

HAND-HELD RECESSED FACIA PANEL

Attractively styled and ergonomically designed for use as a hand-held instrument enclosure. Moulded from economical plastic. Recessed top for membrane display or pad. Lap joint construction provides protection against the ingress of dust and splashing water. Deep top and shallow base are specifically designed to enhance the aesthetics of the enclosure and provide the user with flexibility and assembly efficiency. PCB standoffs in top and base.

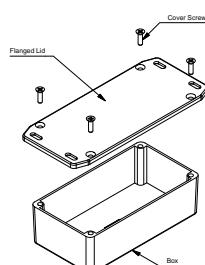
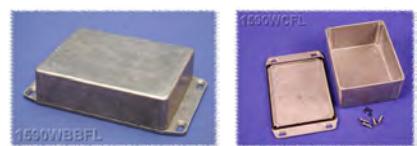
Length	Width	Height	Code
130	65	25	1599BSGY
170	85	34	1599ESGY
220	110	44	1599HSGY
220	140	41	1599KSGY



HAMMOND 1590 FLANGE MOUNT AU

Diecast Aluminium Enclosure With Flange IP54, lap joint construction protects against dust and splashing water ingress and provides good EMI/RFI shielding.

Length	Width	Height	Code
93	39	27	1590WAFL
112	60	27	1590WBFL
121	66	35	1590WN1FL
153	82	46	1590WP1FL
188	120	52	1590WDDFL



HAMMOND 1590 DIECAST ALUMINIUM ENCLOSURE

Length	Width	Height	Code
125	125	57	1590KK
112	60	27	1590B
120	93	30	1590BB

Rugged, diecast aluminium alloy material. Lap joint IP54. Four machine screws secure lid - into tapped holes.

IP54 RATING

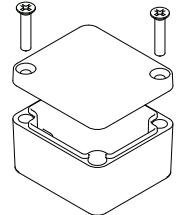


HAMMOND 1550W DIECAST ALUMINIUM IP66 LIGHT

IP66 WEATHER PROOF

Rugged, die-cast aluminium watertight enclosure. Tough yet easy to machine. Lap joint construction with EVA foam gasket (included). Vibra finished for a smooth surface with no sharp edges. Polyester powder painted inside and out for a lasting finish. Four M3.5 x 12 mm long stainless steel, Phillips head. Designed to meet IP66 weather proof & RF shielding. No internal ribs for installation of connectors without interference. Low side wall draft angle (2° or less) for easy PCB mounting.

Length	Width	Height	Code
60	55	30	1550WQ
89	35	30	1550WA
115	64	55	1550WD
222	146	105	1550WH



HAMMOND 1550 DIECAST ALUMINIUM ENCLOSURE

LAP JOINT IP54 & EMI-RFI SHIELDED

Rugged, die-cast aluminium alloy electronic instrument enclosure. Tough yet easy to machine. Lap joint construction protects against the ingress of dust and splashing water and also provides for improved EMI/RFI shielding. Unpainted version is vibra finished for a smooth surface with no sharp edges. Four M3 12 mm long stainless steel Phillips head machine screws secure the lid into factory tapped holes. Designed to meet IP54. No internal ribs. Low side wall draft angle.

Length	Width	Height	Code
80	55	21	1550P
115	64	26	1550B
140	102	73	1550K
165	127	73	1550L
250	250	97	1550N

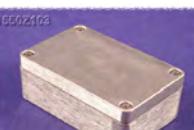


HAMMOND 1550Z DIECAST ALUMINIUM IP66 HEAVY

IP66 WEATHER PROOF

Thick wall diecast aluminium watertight enclosure. Two piece "tongue & groove" construction for protection against access of dust and water to IP66. Ideal for repetitive opening and closing. Wall mount using "through box - blind hole" (except 1550Z120). Access to blind holes is outside the gasket ring. Vibra finished for a smooth surface with no sharp edges. Polyester powder painted inside and out for a lasting finish. Phillips lid screws are outside the gasket protection area. Gasket is pre-formed, one-piece silicone rubber. No internal ribs for installation of connectors without interference.

Length	Width	Height	Code
50	45	30	1550Z101
115	90	55	1550Z113
160	100	60	1550Z116
171	121	55	1550Z120
223	147	50	1550Z124
121	121	102	1550Z137





Electronic Components

□ Hammond

HAMMOND 1590Z120 DIECAST ENCLOSURE

Rugged, diecast aluminum alloy electronic instrument enclosure. Two piece "tongue & groove" construction with a replaceable one-piece silicone rubber gasket provides protection against access of dust and water.

Gasket supplied loose inside the enclosure.

The operating temperature for the gasket ranges from -40°C to 150°C. Ideal for repetitive opening and closing. Four recessed stainless steel machine screws secure lid into tapped holes. Designed to meet IP68.

Impact rating of IK08 per IEC62262.



Colour	Length	Width	Height	Code
Black	124	80	44	1590Z120BK
Grey	124	80	44	1590Z120GY

HAMMOND 1590 DIECAST ALUMINIUM OCTAGON

Rugged, diecast aluminum alloy electronic instrument enclosure. Lap joint construction provides protection against access of dust and splashing water. Also provides for improved EMI/RFI shielding. Four recessed stainless steel machine screws secure lid into tapped holes.

Designed to meet IP54.

Colour	Length	Width	Height	Code
Blue	133	133	35	1590STPCCB
Green	133	133	35	1590STPCGN
Light Grey	133	133	35	1590STPCLG
Orange	133	133	35	1590STPCOR
Red	133	133	35	1590STPCRD



HAMMOND 1594 ABS IP65

Rugged electronic instrument enclosures, ideally suited for mounting printed circuit boards.

Heavy duty, thick wall design with an average wall thickness of 3.3 mm. Flame retardant ABS plastic, 94V-0 rated.

With gaskets and screws with o-rings, Water-tight, countersunk lid is secured with four machine screws threaded into integral brass bushings.

Perfect for applications with repetitive assembly and disassembly required.

IP65 rated.

Colour	Length	Width	Height	Code
Black	56	56	28	1594AWBK
Black	132	66	43	1594DWBK



HAMMOND 1590TRPC DIECAST TRAPEZOID

Rugged, diecast aluminum alloy electronic instrument enclosure. Lap joint construction provides protection against access of dust and splashing water. Also provides for improved EMI/RFI shielding. Four machine screws secure lid into factory tapped holes. Designed to meet IP54. Low side wall draft angle ($\leq 2^\circ$) for easy P.C. board mounting.



Colour	Length	Width	Height	Code
Unfinished	121<151	95	35	1590TRPC
Blue	121<151	95	35	1590TRPCCB
Green	121<151	95	35	1590TRPCGR
Light Grey	121<151	95	35	1590TRPCLG
Orange	121<151	95	35	1590TRPCOR
Red	121<151	95	35	1590TRPCRD

HAMMOND 1590TRPB DIECAST SHORT TRAPEZOID

Rugged, diecast aluminium alloy electronic instrument enclosure. Lap joint construction provides protection against access of dust and splashing water. Also provides for improved EMI/RFI shielding. Four machine screws secure lid into factory tapped holes. Designed to meet IP54. Low side wall draft angle ($\leq 2^\circ$) for easy P.C. board mounting.

Colour	Length	Width	Height	Code
Unfinished	112	62<79	35	1590TRPB
Blue	112	62<79	35	1590TRPBCCB
Green	112	62<79	35	1590TRPBGR
Light Grey	112	62<79	35	1590TRPBBLG
Orange	112	62<79	35	1590TRPBOR
Red	112	62<79	35	1590TRPBRD



HAMMOND 1591 PLASTIC IP54

Made with flame retardant ABS plastic. Strong tongue and groove lid to box construction provides protection against access of dust and splashing water.

Designed to meet IP54.

The lid is secured with machine screws threaded into integral brass bushings.

Perfect for applications with repetitive assembly and disassembly are required.



Colour	Length	Width	Height	Code
Black	80	56	36	1591XXLBK

WITH FLANGE LID

Colour	Length	Width	Height	Code
Black	150	80	46	1591XXDFLBK





HAMMOND 1553 HAND-HELD

Ergonomically designed for hand-held comfort. Molded in general purpose ABS plastic with a grey overmold, soft plastic grip. Top cover is recessed for membrane display or keypad. PCB standoffs are molded into case. Includes removable front panel and assembly hardware. Battery door & compartment version includes 4 battery clips for 2 - AA batteries and a 9 volt battery clip.

Length	Width	Height	Code
117	79	24	1553BBKBAT
117	79	33	1553CBKBAT
147	89	24	1553DBKBAT

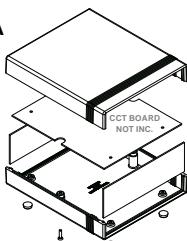


HAMMOND 1598 INSTRUMENT ENCLOSURE

BENCHTOP STYLE GREY WITH BLACK FACIA

Modern low profile instrument enclosure. Two sets of vertical 1.5 mm PC board guides are moulded into the case halves at the front and rear. Moulded in general purpose ABS plastic. End panels are moulded in black ABS plastic. Designed to meet IP54. Integral horizontal PCB stand-offs on Eurocard centres.

Length	Width	Height	Code
115	92	36	1598ASGYPBK
133	133	51	1598BSGYPBK
160	160	86	1598ESGYPBK
178	152	51	1598CSGYPBK
178	203	63	1598DSGYPBK



Rack Mount Cases

19" RACK CASES

Each finish is available in 1U (44mm), 2U (88mm) or 3U (132mm) high. Overall depth 255mm. Brushed aluminium black anodised facia (482.5mm).

Brushed look black anodised aluminium front panel
1.5mm aluminium rear panel for easy machining
Steel sides and removable top and bottom steel panels
Facia Size conform to the International Standard 482.5mm
Ventilated lid and Deluxe finish front panel
Supplied in flat pack form - Easily assembled

Rack	Size	Code
1U	44x255x432mm	CAS5031
2U	88x255x432mm	CAS5032
3U	132x255x432mm	CAS5033

BLANKING PANELS

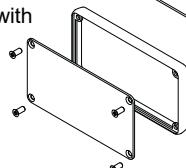
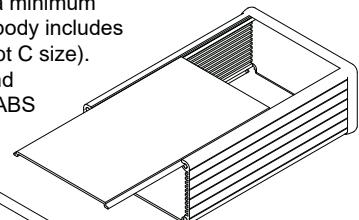
A large range of rack panels are available.
These are primarily used in server racks
Please see our DATA Section 04....



HAMMOND 1455 EXTRUDED ALUMINIUM

PLASTIC OR METAL END PANELS

Designed to house PCBs or for equipment interfacing. N size accepts standard Eurocards. PCBs mount horizontally by sliding into internal slots extruded into the enclosure body. Rugged body constructed from extruded clear anodised aluminium with a minimum thickness of 1.5 mm. Extruded body includes a slide removable belly plate (not C size). Available with two aluminium end panels and two separate black ABS plastic bezels or with two easy to machine, black solid ABS plastic end panels with integral bezels.



METAL END PANELS

Length	Width	Height	Code
80	54	23	1455C801
120	78	27	1455J1201
120	78	43	1455K1201
120	103	31	1455L1201
120	103	53	1455N1201
160	78	43	1455N1601



PLASTIC END PANELS

Length	Width	Height	Code
80	54	23	1455C802
120	78	27	1455J1202
120	78	43	1455K1202
120	103	31	1455L1202
120	103	53	1455N1202



METAL END PANELS BLACK CASE

Length	Width	Height	Code
80	54	23	1455C801BK
120	54	23	1455C1201BK
120	78	27	1455J1201BK
120	78	43	1455K1201BK
120	103	31	1455L1201BK
120	103	53	1455N1201BK
160	103	53	1455N1601BK
160	78	43	1455K1601BK
220	102	53	1455N2201BK





Electronic Components

□ Accessories

MOUNTING FLANGE

ABS IP65 SUITS CAS03xx & RP SERIES

Kit includes four flanges and mounting screws for each corner. Suits mounting enclosures including all CAS03xx & RP Series.

Pack of **Code**
4 MNT0370



MOUNTING FEET ROUND

Bolt-On rubber feet with 3mm hole. (Screws not included).

Size **Code**
7X12mmØ BRF12
7X15mmØ BRF15
12x24mmØ BRF24



MOUNTING FEET SNAP-IN

10mm diameter, requires 8mm Mounting Hole.
5mm chassis clearance.

Size **Code**
5x10mmØ PRF10



MOUNTING FEET SQUARE

Self adhesive general purpose

Size **Code**
12x12x6mm RFG12
20x20x7.5mm RFG20



MOUNTING FEET HEMISPHERE

Non slip rubber feet to protect delicate surfaces from scratching and to elevate equipment to allow airflow preventing heat build-up. 3M adhesive. ROHS.

Size **Code**
8x16mmØ RFG16



MOUNTING FEET SLIM

Low profile rubber feet with adhesive base.

Size **Code**
4X12mmØ ARF12



EARTH CABLE LEAD 35CM

WITH RING TERMINALS

35cm earth cable with ring terminals on both ends (O.D.: 11mmØ, I.D. 6mmØ)
Can be used for grounding of network panel panels.

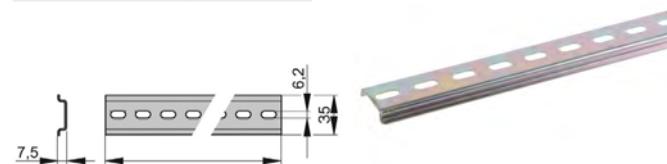
Code
LY-SB10



DIN RAIL

Professional quality 35mm DIN Rail. Available in various lengths. Zinc Anodised Steel. Slotted for easy mounting.

Length	Description	Code
1M	Delivery Possible.	DRS1
2M	Pick-up only**	DRS2



DIN CLIPS

ATTACH ENCLOSURE TO DIN RACK

Designed for mounting enclosures to DIN rails
Includes hardware & drilling template
4 pieces #6 X 1/4" self tapping screws
Centre to centre hole spacing is 30mm
Material is a rugged flame retardant nylon
UL94-V0 flammability rating
Maximum weight load is 15Kg each.
Units are 45.7mm long, 10.1mm wide
Sold in packages of 2

Pack of **Code**
2 1427DINCLIP



DIN RAIL END BRACKET

LOCKS POSITION

Suitable for 35mm top hat DIN rail mounts.
Screws into place then screw to provide a secure grip and prevent movement. Sold in singles.

Code
DRC



SPIKE FEET AVAILABLE

SEE SPEAKER SECTION 03





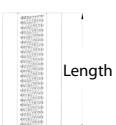
M3 NYLON SPACER – FEMALE / FEMALE

M3 THREADED THROUGH

Hexagonal threaded spacer. Widely used for single or multi-layer PCB mounting. Nylon-66 fireproof grade UL94V-2 material.

Length Code

6mm	M3-6HP
9mm	M3-9HP
12.7mm	M3-12HP
20mm	M3-20HP



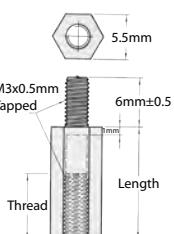
M3 NYLON SPACER - MALE / FEMALE

M3 THREADED BOLT AND SOCKET

Hexagonal threaded spacer. Widely used for single or multi-layer PCB mounting. Nylon-66 fireproof grade UL94V-2 material.

Length Thread Code

6mm	4mm	M3-6TP
9mm	6mm	M3-9TP
18mm	6mm	M3-18TP
22mm	6mm	M3-22TP



M3 NUTS & BOLTS

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

Miscellaneous Nuts & Bolts suitable for heat sink applications.

METAL SCREW

Pack of	Code
10	YC81



POLY SCREW

Pack of	Code
10	YC80

SPRING WASHER

Pack of	Code
10	YC84



METAL NUT

Pack of	Code
10	YC85

TAGGED WASHER

Pack of	Code
10	YC86



POLY NUT [SINGLES]

Pack of	Code
one	M3-NYNUT



M3/M4 NUT & BOLT KITS

BAGS OF 50x NUTS/BOLTS/WASHERS

Pan head Posi Bolt x50 Nut x50 & Washer x50

Size	Pack of	Code
M3	50 x 3	M350KB
M4	50 x 3	M450KB



RACK CABINET CAGE NUTS

PACK OF FOUR KITS - NUTS & BOLTS

Colour	Pack of	Code
Black	4 Sets	CNM601
Silver	4 Sets	CNM602
Black	100 Sets	CNM603
Silver	100 Sets	CNM604



TWIST-LOCK CABLE HOLDER

Cable hold twist secure 20mm stand-off
Snap fits into a 4mm panel hole.



CABLE HOLDER

Cable tidy snap-fits into a 4mm panel hole.
Sold in bags of a hundred.

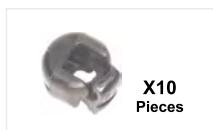
Cable	QTY	Code
16x11mm	100	WHL1
25x11mm	100	WHL2



STRAIN RELIEF BUSHING

CABLE CLAMPS

Hole	Pack of	Code
6.2Ø to 7.4Ø	10	SRC510
7.4Ø to 8.2Ø	10	SRC610

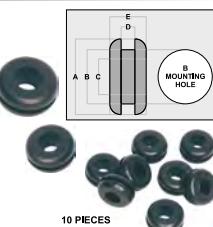


RUBBER GROMMETS

CHASSIS MOUNT 10 PIECES

Please Order ONE to Receive a bag of Ten.

A	B	C	D	E	Code
11	8.0	4.5	1.6	4.5	GM210
15	9.5	6.3	1.6	7.0	GM310
18	13	9.5	1.6	6.8	GM410



NYLON CABLE GLAND PAIR

Twist to lock strain relief for weather-proof cable entry. Order One to receive a bag of Two.

Cable Range	Hole	Pack of	Code
3-6mmØ	12mmØ	2	HP0720
6-12mmØ	20mmØ	2	HP0732



NYLON CABLE GLAND LARGE

IP68 cable gland with rubber clamping ring for a secure and weatherproof cable entry seal.

Cable = Entry min-max diameter

Hole = Chassis cut diameter

Cable	Hole	Code
5-7mmØ	12mmØ	NCG1012
6-8mmØ	16mmØ	NCG1016
8-12mmØ	20mmØ	NCG1020
12-18mmØ	25mmØ	NCG1025
18-20mmØ	32mmØ	NCG1032
24-30mmØ	40mmØ	NCG1040
31-40mmØ	50mmØ	NCG1050
40-44mmØ	63mmØ	NCG1063



SCREWS & NUTS & BOLTS

SEE TOOLS SECTION





Electronic Components

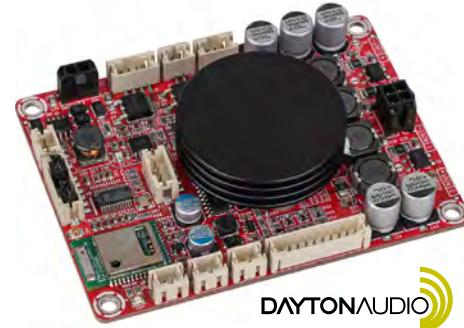
□ DIY □ Amplifier Modules KAB

KAB V4 2X 50W AMPLIFIER BOARD CLASS-D DIY WITH BLUETOOTH 5.0

The Dayton Audio KAB-250v4 Bluetooth Amplifier Board makes it quick and easy to add audio to your project, speaker build, point-of-purchase display, kiosk, or any location where music or sound enhances the experience. With an output of 2 x 50 watts, there is more than enough power to drive stereo speakers, yet the board is small enough to integrate into nearly any project.

- High quality power from the efficient TPA3116 Class-D amplifier IC
- Qualcomm Bluetooth 5.0 module Supports aptX HD, aptX LL, SBC and AAC.
- On board external antenna jack enables mounting in a metal enclosure
- Module includes power and speaker output wiring harnesses 50cm
- Class-D 90% Efficiency plus very low standby power consumption
- Direct DC input from a power adaptor 12Vdc / 24Vdc or
- Power by battery or optional Li-Ion battery charger solution
- Compact 91x69x23mm with built-in heat sink
- 2x 50W 4 Ohm (21Vdc 5A) 92dB SNR 22Hz-22KHz
- Optional accessories expand the functionality for your project

Code
KAB-250V4



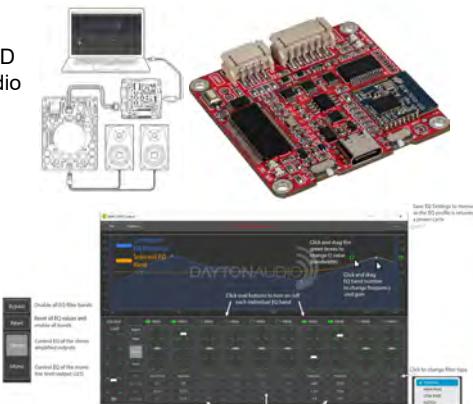
KPX IN-CIRCUIT PROGRAMMER BOARD

DAYTON AUDIO PROPRIETARY KABX SOFTWARE CONTROL

The dual-purpose Dayton Audio KPX allows you to unlock the full potential of your DSPB/KABD amplifier or preamp boards by connecting them to the easy to use, Analog Devices SigmaStudio visual programming tool. KPX also enables you to use KABX software to preset equalisation settings and more for the KAB-250v4, KAB-230v4, and KAB-100Mv2.

- Programs with readily available SigmaStudio or KABX computer software
- Connects to your computer using a standard USB-C cable (sold separately)
- 50 x 50 mm size fits into small enclosure projects for permanent installations or easy connection to your KABD/DSPB amplifier or preamp boards
- Includes a 6-pin, 8" jumper cable that plugs directly into DSPB and KABD amplifier boards
- Includes a 4-pin, 8" jumper cable that plugs directly into KAB-250v4, KAB-230v4, boards
- Built-in switch toggles between the two software programs/ports

Code
KPX



KAB 2X 30W AMPLIFIER BOARD WITH DSP CLASS-D DIY WITH BLUETOOTH 5.0 aptX HD

HIGH DEFINITION BLUETOOTH - KPX & ICP1 COMPATIBLE

Dayton Audio KABD-230 combines a 2 x 30W amp board, Bluetooth 5.0, and an ADAU1701 digital signal processor all in one amp board. This enables you to customize your next DIY audio project's sound using SigmaStudio software and Dayton Audio KPX or ICP1 Bluetooth programmer.

- All-in-one board design reduces space needed for audio DIY projects.
- Wire harnesses make installation quick and simple with no soldering required
- Includes power, Bluetooth reset button and speaker cables.
- Separate ports for powering by battery or DC input from 12 to 24V power source.
- Integrated ADAU1701 DSP chip for ultimate signal control and customisation.
- Program with SigmaStudio software using ICP1 or KPX boards (sold separately).
- Class-D amplification with efficient 2 x 30W of power from the TPA3116 amp chip.
- Easy to use plug-and-play solderless configuration for simple DIY projects.
- DSP controlled line level output for connecting powered subwoofers or amplifiers.
- Bluetooth 5.0 or line-level AUX input accommodates wireless and wired audio

Code
KABD-230



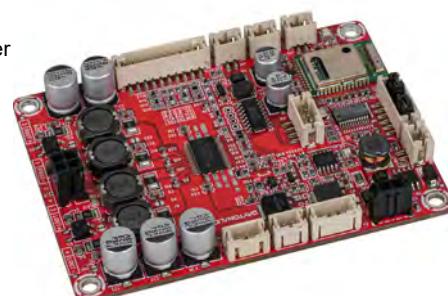
KAB 2X 30W AMPLIFIER BOARD WITH DSP CLASS-D DIY WITH BLUETOOTH 5.0 aptX HD

INBUILT SIGNAL PROCESSOR COMPATIBLE WITH KPX

The Dayton Audio KAB-230v4 Bluetooth Amplifier Board makes it quick and easy to add audio to your project, speaker build, point-of-purchase display, kiosk, or any location where music or sound enhances the experience. With an output of 2 x 30 watts, there is more than enough power to drive stereo speakers, yet the board is small enough to integrate into nearly any project.

- Efficient 2 x 30 watts of power from the TPA3118 amp chip
- Bluetooth 5.0 with aptX HD built directly into board -- no need for a separate module
- Add programmable sound customization with Dayton-Audio's included KABX software via the optional KPX programmer board (sold separately)
- Wire harnesses make installation quick and simple with no soldering required
- Includes power and speaker cables to connector break-out leads
- Separate ports for powering by battery or direct DC input from a power adaptor
- Optional accessories expand functionality and more

Code
KAB-230V4





□ DSP Boards

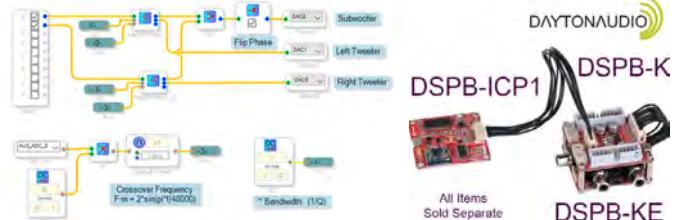
DSPB PROGRAMMER USB

USE WITH SIGMASTUDIO SOFTWARE

DSPB-K modules require this PC-USB programming module to connect a DSPB board to a computer for initial set up. Once programmed, this module can be disconnected. Includes DSPB cable. See our website for full project details.

Code
DSPB-ICP1

DAYTONAUDIO



DSPB KERNEL BOARD AND EXPANSION 2-IN 3-OUT

AS FEATURED IN DIODE MAGAZINE

Kit includes DSPB-K DSP and DSPB-KE with Stereo RCA Input with Stereo plus Subwoofer RCA (2.1CH) output. Pre-configured with four DSP controls. Limitless filters, EQ, bass processing.

- Very popular Analog Devices' ADAU1701 processor is built-in for advanced audio 24-bit digital signal processing in a tiny package. (Requires the DSPB-ICP1 to download your program)
- Four potentiometers on-board to adjust the gain and high / low pass filters for your satellite and subwoofer channels right out of the box
- Supplied pre-loaded with 2.0 channel to 2.1 channel (sub) program
- Almost endless customisation with ADAU1701 SigmaStudio software (Free for download to a Windows PC) then unit runs stand-alone
- 3.5mm & RCA input/output connections for making a 2.1 system
- Package includes required wire harness and standoffs

See our website for full project details.

Code
DSPB-K-KE



DSPB 50W STEREO AMPLIFIER BOARD WITH DSP

DIGITAL SIGNAL PROCESSOR + AMPLIFIER

Dayton Audio KAB-250 high power amp board with inbuilt DSPB signal processor. Requires programmer DSPB-ICP1. Optional connect to KAB-250 for a 4CH active 2-way crossover with Bluetooth in. 50Wrms Stereo Channel 12-24Vdc ~4A. See our website for full project details.

Code
DSPB-250



□ Amplifier Boards - Bluetooth

KAB 15W STEREO AMPLIFIER BOARD WITH BT5.0

BLUETOOTH 5.0 INBUILT RECEIVER

Class-D 2x 15Wrms AD82110 amp board. Bluetooth V5.0 built-in for audio receive. Compatible with KAB extension cables. Optional Li-Ion battery solution available. Requires 12V to 24Vdc 2A power supply. DIY board 91x68x22mm. 90% efficient.

Code
KAB-215V2



DSPB KERNEL BOARD ADAU1701

DIGITAL SOUND PROCESSOR BOARD ONLY

ADAU1701 is a popular advanced digital signal processor on a pre-built PCB for DIY audio projects. Includes ADC/DAC. This PCB may require an audio I/O board and a programmer USB board. See our website for full project details.

Code
DSPB-K



DSPB KERNEL EXPANSION BOARD 2-IN 3-OUT

AUDIO BREAKOUT BOARD ONLY

The Dayton Audio DSPB-KE is a quick connection board that adds your programmed DSPB-K board to your audio project using standard RCA input/output jacks. Preamp level 2 in, 3 out. See our website for full project details.

Code
DSPB-KE



DSPB 100W MONO AMPLIFIER BOARD WITH DSP

DIGITAL SIGNAL PROCESSOR + AMPLIFIER

Dayton Audio KAB-100 high power amp board with inbuilt DSPB signal processor. Requires programmer DSPB-ICP1. Optional connect to KAB-250 for a 2.1CH audio system amplifier with Bluetooth in. 100Wrms Single Channel 12-24Vdc ~4A. See our website for full project details.

Code
DSPB-100



KAB 100W MONO AMPLIFIER BOARD WITH BT4.0

BLUETOOTH V4 aptX EXTERNAL ANTENNA

Class-D 100Wrms TPA3116 amp board. Bluetooth V4.0 built-in for audio receive. Compatible with KAB extension cables. Requires 12V to 24Vdc ~5A power supply. DIY board 91x68x22mm. (Not DSPB). Stand-alone or an ideal extension to multi-channel setups by adding a subwoofer.

Code
KAB-100M





Electronic Components

□ KAB Amplifier Board Extension

KAB VOLUME CONTROL & POWER SWITCH

VOLUME / AUX / POWER SW - SUITS KAB SERIES

- 3.5 mm AUX-in cable with jack provides a way to play music with non-Bluetooth devices
- External volume control with cable and knob to keep the sound under control
- Battery cable for true portable projects
- On/Off power cable for optional standby switch

Code
KAB-FC

DAYTONAUDIO



KAB INDICATOR KIT

POWER / CHARGE / BLUETOOTH

Kit of three LEDs, red, green, blue to indicate Power, Charging, and Bluetooth.

Code
KAB-LED

DAYTONAUDIO



KAB INTERFACE - PANEL MOUNT

COMPATIBLE WITH KAB-250V3

Metal panel bracket holds the included kit of indicators, controls and sockets to finish off your KAB project. All items are simple plug-n-play.
120x95mm

Code
KAB-PMV3

DAYTONAUDIO



DSPB WIRING KITS

Additional wiring looms may be required for your project. See DSPB manual for details.

Code
DSPB-KW



□ Amplifier Modules DIY

AMPLIFIER BOARD CLASS-D DIY 2X 50W

STEREO 50W TDA7492 DUAL BTL

Fully pre-assembled & tested. Compact Size: 70x60x20mm Power: 10Vdc - 26Vdc ~4A Fixed Gain 34dB 2x 50Wrms. Heat sink included. Screw terminals I/O.

Code
DAA250



AMPLIFIER BOARD CLASS-D DIY 2X 10W

STEREO 10W PAM8610 WITH VOLUME

Fully pre-assembled & tested. Compact Size: 34x40x15mm Power: 10Vdc - 16Vdc ~4A Volume control. 2x 10Wrms. 3.5mm stereo input Screw terminal output

Code
DAA210



KAB INTERFACE BOARD

POWER SWITCH - AUX IN - USB CHARGE - SUITS KAB SERIES

Interface board with 50cm cable to KAB series of amplifier boards. AUX Input 3.5mm and Two USB-A female ports for 2A charging. Momentary push button switch that controls the standby function with LED indicators for power and charging status.

Code
KAB-INT



KAB MOUNTING BRACKET

SUITS KAB-250V3

Dayton Audio's KAB-AB L-shape aluminium bracket is used for securely mounting the KAB amplifier board.

Code
KAB-AB



KAB BATTERY BOARD

BUILT IN LI-ION CHARGER SUITS KAB SERIES

Li-Ion battery charging board for three 18650 batteries. Recommended BAT-KAB sold separately. Fully protected for safe charging of unprotected batteries. 19Vdc 4A power adaptor is required.

Code
KAB-BE

DAYTONAUDIO



BATTERIES SOLD SEPARATE

BATTERIES TO SUIT KAB-BE

Code
BAT-KAB

19VDC 4.75A MAINS SUPPLY
Code
SMP-90W



INTER-CONNECTS & THREE INDICATOR LEDS

Code
DSPB-EC

□ Amplifier Modules DIY

2X 11W AMPLIFIER BOARD CLASS-AB DIY

22W BRIDGED (4Ω) - 11W BRIDGED (8Ω) - 5.5W STEREO (4Ω)

Assembled TA7280P Class-AB. Stereo 5W or Mono 20Wrms*. Power: 12V-18Vdc ~3A Size: 32x36x20mm Requires heat sink and other components depending on installation requirements*.

Code
EP22



AMPLIFIER BOARD CLASS-T DIY 2X 15W

STEREO 15W TRI-PATH TA2024

Fully pre-assembled & tested. Separate volume control inc. Main PCB: 68x33mm Power: 12Vdc ~2A 3.5mm stereo input Wire loom output

Code
DTA-2



DISCONTINUED