

Model Number: GBS-135F25AL02-04
 Product Line: Peerless Gold

Revision: Rev DVR 1
 Date: 14-Mar-14

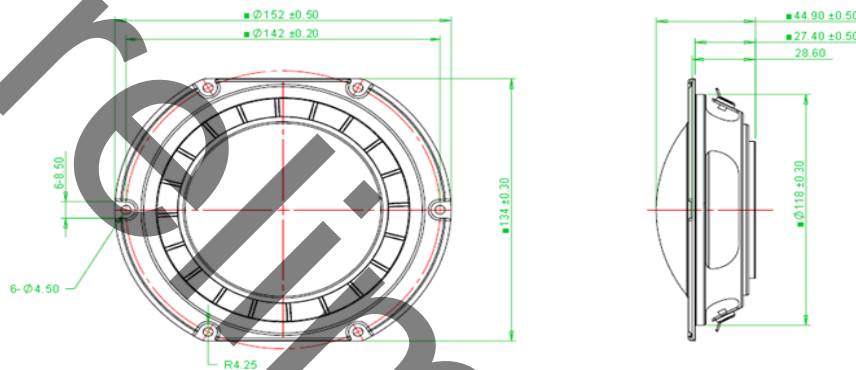


Product Description:

This 5.25 inch 4 Ω transducer member of the GBS family provides a very slim woofer capable of large excursion. A highly optimized ferrite magnet and unique suspension layout combine to give a cost effective solution in a previously unavailable package.



Mechanical 2D Drawing:



Specifications:

DC Resistance	R_{DC}	Ω	3.3	±7.5%	Energy Bandwidth Product	EBP	$(1/Q_{ms}) \cdot f_s$	102
Minimum Impedance	Z_{min}	Ω	4.4	±7.5%	Moving Mass	M_{ms}	g	12.04
Voice Coil Inductance	L_e	mH	0.31		Suspension Compliance	C_{ms}	um/N	635.3
Resonant Frequency	f_s	Hz	58	±15%	Effective Cone Diameter	D	cm	10.4
Mechanical Q Factor	Q_{ms}	-	4.1		Effective Piston Area	S_D	cm ²	85.7
Electrical Q Factor	Q_{es}	-	0.57		Equivalent Volume	V_{as}	L	6.552
Total Q Factor	Q_{ts}	-	0.50		Motor Force Factor	BL	T·m	5.01
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	116		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	7.67
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	88.6	±1.0 ¹	Voice Coil Former Material	VC_{fm}	ASV	
Sensitivity @ 1W/1m	$1W/1m$	dB	85.0	±1.0 ¹	Voice Coil Inner Diameter	VC_g	mm	25.50
Rated Noise Power (IEC 2685 18.1)	P	W	35W		Gap Height	Gh	mm	6.00
Test Spectrum Bandwidth	50-20k		12 dB/Oct		Maximum Linear Excursion	X_{max}	mm	3.30
					Ferrofluid Type	FF	N/A	
					Transducer Size	-	5.25 inch	
					Transducer Mass	-	Kg	0.80

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

