

Model Number: XXLS-P835016 Revision: Rev 2\_0 Product Line: Peerless Platinum Date: 31-Aug-12

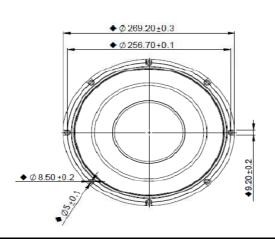


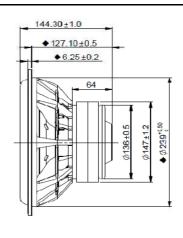
## **Product Description:**

This 10 inch 4  $\Omega$  member of the XXLS product family has all the design features suitable for a high performance, high excursion subwoofer driver. The motor features a double ferrite magnet motor, supporting high excursion, and aluminium shorting rings and pole extenders, lowering and linearizing the inductance of the overhung voice coil. The black aluminum cone is vented under the dust cap, to reduce air compression. The suspension system features a low-creep rubber surround, and a nomex spider, ensuring long-term reliability under high power conditions. The product also features a rigid cast aluminium basket.



## Mechanical 2D Drawing:





## Specifications:

DO Desistence	В	_	0.5	7.50/	Forman Department Department	EDD	(1/0 ) (	00
DC Resistance	R <sub>evc</sub>	Ω	2.5	±7.5%	Energy Bandwidth Product	EBP	(1/Q <sub>es</sub> )·f <sub>s</sub>	68
Minimum Impedance	$Z_{min}$	Ω	3.3	±7.5%	Moving Mass	M <sub>ms</sub>	g	102.11
Voice Coil Inductance	L <sub>e</sub>	mH	0.51		Suspension Compliance	$C_{ms}$	um/N	365.0
Resonant Frequency	fs	Hz	26	±15%	Effective Cone Diameter	D	cm	21.3
Mechanical Q Factor	Q <sub>ms</sub>	-	11.3		Effective Piston Area	$S_D$	cm <sup>2</sup>	356.3
Electrical Q Factor	Q <sub>es</sub>	-	0.38		Equivalent Volume	V <sub>as</sub>	L	65.093
Total Q Factor	Q <sub>ts</sub>	-	0.37		Motor Force Factor	BL	T·m	10.36
Ratio f <sub>s</sub> / Q <sub>ts</sub>	F	$f_s$ / $Q_{ts}$	70		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	43.74
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	89.0	±1.0 1	Voice Coil Former Material	$VC_{fm}$	-	GSV
Sensitivity @ 1W/1m	1W/1m	dB	83.8	±1.0 1	Voice Coil Inner Diameter	VC <sub>d</sub>	mm	51.32
					Gap Height	Gh	mm	8.00
Rated Noise Power (IEC 2685 18.1)	Р	W	100		Maximum Linear Excursion	$X_{max}$	mm	12.30
Test Spectrum Bandwidth 20Hz-4KHz		z	12 dB/Oct		Ferrofluid Type	FF		N/A
					Transducer Size	-	-	10 inch
ston Band Sensitivity Tolerance					Transducer Mass	-	Kg	6.14

## Frequency and Impedance Response:

