

Model Number: XXLS-P835016 Revision: Rev 1_0
Product Line: Peerless Platinum Date: 12-Apr-10

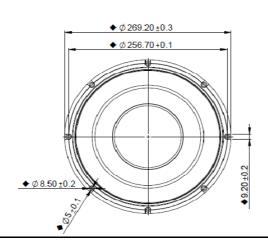


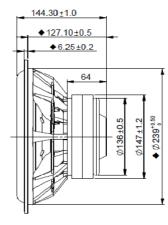
Product Description:

This 10 inch 4 ohm 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 PP 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:

DC Resistance	R _{evc}	Ω	2.5	5.0%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	68
Minimum Impedance	Z_{min}	Ω	3.3	7.5%	Moving Mass	M _{ms}	g	102.1
Voice Coil Inductance	L _e	mH	0.51		Suspension Compliance	C_{ms}	um/N	365
Resonant Frequency	fs	Hz	26	15.0%	Effective Cone Diameter	D	cm	21.30
Mechanical Q Factor	Q_{ms}	-	11.27		Effective Piston Area	S_D	cm ²	356.3
Electrical Q Factor	Q_{es}	-	0.38		Equivalent Volume	V _{as}	L	65.093
Total Q Factor	Q_{ts}	-	0.37		Motor Force Factor	BL	T·m	10.36
Ratio f _s / Q _{ts}	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_d	mm	51.00
					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		12 d	B/Oct	Ferrofluid Type	FF		N/A
•					Transducer Size	-	inch	10
Piston Band Sensitivity Tolerance					Transducer Mass	-	Kg	6.14

Frequency and Impedance Response:

