Driver Specification Sheet

Peerless by TYMPHANY

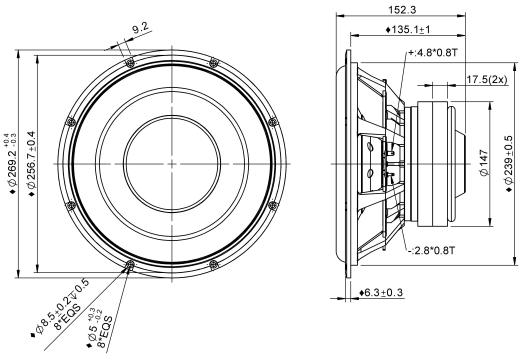
Model No:: XXLS-P835016
Product Line: Peerless

Rev: 1
Last Update: 2017-04-25 14:32:09

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 Aluminium 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.

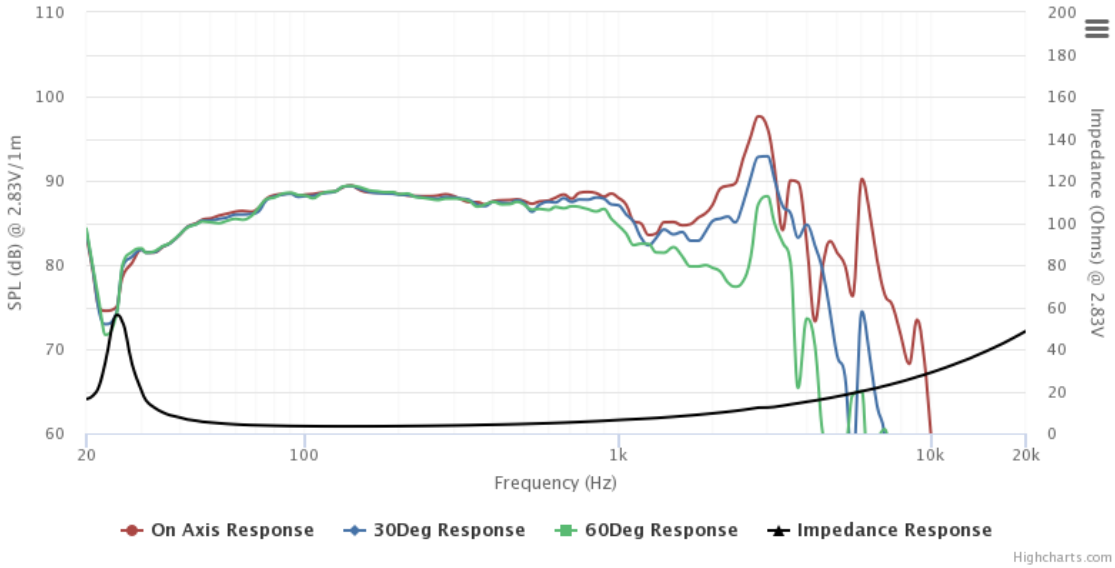
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	2.46	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	3.35	7.5%	Moving Mass	Mms	g	102.1
Voice Coil Inductance	Le	mH	0.51		Suspension Compliance	Cms	um/N	365
Resonant Frequency	Fs	Hz	26.07	15%	Effective Cone diameter	D	cm	21.3
Mechanical Q Factor	Qms		11.27		Effective Piston Area	Sd	cm^2	356.3
Electrical Q Factor	Qes	0.38			Effective Volume	Vas	L	65.09
Total Q Factor	Qts		0.37		Motor Force Factor	BL	Tm	10.36
Ratio Fs/Qts	F	Fs/Qts	70.46		Motor Efficiency Factor	ß	(T*M^2)/Ohms	43.7
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	88.98	+/- 1.0db	Voice coil former Material	VCfm		GSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	85.2	+/- 1.0db	Voice coil inner diameter	VCd	mm	51
Gap Height	Gh	mm	8		Rated Noise Power	P	W	100
Maximum Linear Excursion	Xmax	mm	12.3		Test Spectrum Bandwidth	20Hz - 4kHz		
Ferrofluid Type	FF				Driver Size	Inch	10 in	
Driver Mass	Kg	6.14						

Frequency and Impedance Response



Tymphany HK LTD
Address : Room 1307-8 Dominion Centre, 43-59 Queens Rd East, Wanchai, Hong Kong
E-mail: sales@tymphany.com