Driver Specification Sheet

Peerless by TYMPHANY

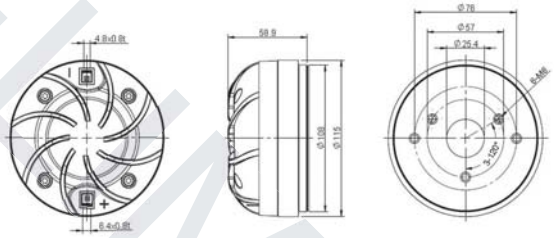
Model No:: DFM-2544R00-08 Rev: 1

Product Line: Tymphany Last Update: 2017-04-25 14:32:09

Product Description

This 1.75 inch diaphragm 1inch exit compression driver is for use in high quality professional sound reinforcement systems. The magnet system was designed for high sensitivity while keeping the weight and cost to a minimum. The 3-slot phasing plug and aluminum wire voice coil give improved HF energy. The titanium diaphragm is coated with a light, thin layer of unique damping material which results in a smoother sound, especially when driven hard. All of the materials resist environmental factor of heat, vibration and aging ensuring many years of stable performance.

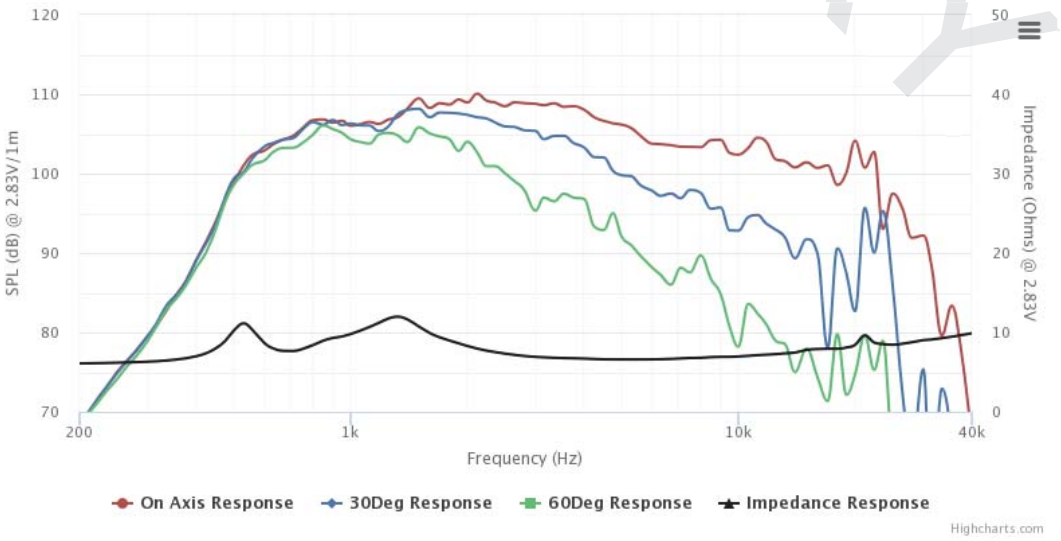
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.09	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	6.59	7.5%	Moving Mass	Mms	g	0.3
Voice Coil Inductance	Le	mH	0.04		Suspension Compliance	Cms	um/N	143.6
Resonant Frequency	Fs	Hz	784.22	15%	Effective Cone diameter	D	cm	4.54
Mechanical Q Factor	Qms		2.02		Effective Piston Area	Sd	cm^2	16.2
Electrical Q Factor	Qes	2.03			Effective Volume	Vas	L	0.05
Total Q Factor	Qts		1.01		Motor Force Factor	BL	Tm	2.06
Ratio Fs/Qts	F	Fs/Qts	774.15		Motor Efficiency Factor	ß	(T*M^2)/Ohms	0.7
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	105.34	+/- 1.0db	Voice coil former Material	VCfm		TIL
Half Space Sensitivity @1W/1M	db@1W/1M	dB	104.5	+/- 1.0db	Voice coil inner diameter	VCd	mm	44.4
Gap Height	Gh	mm	3.5		Rated Noise Power	P	W	60
Maximum Linear Excursion	Xmax	mm	0.3		Test Spectrum Bandwidth	1.5k Hz-15k Hz		
Ferrofluid Type	FF				Driver Size	Inch	1 in	
Driver Mass	Kg	1.8						

Frequency and Impedance Response



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