Peerless by TYMPHANY

Transducer Specification Sheet

Model No: DX19TD10-08
Product Line:

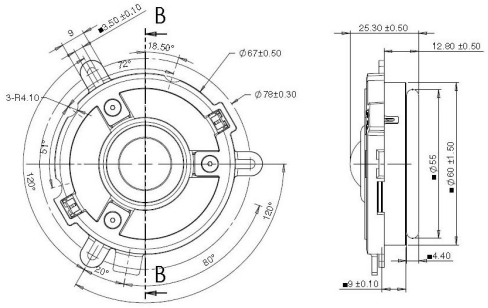
Rev 1
Last Update: 2017-01-05 14:19:58

Product Description

This DX family tweeter features a 8 ohm 19 mm ferrofluid-cooled voice coil, a damped silk diaphragm with large surround roll to produce a low resonant frequency, and a ferrite magnet motor which adds heat sinking for power handling capacity. The faceplate features recessed mounting holes to minimize reflections.

NOTE THIS DRIVER IS NOT APPROVED AND/OR IS NOT IN MASS PRODUCTION YET.
AS SUCH IT MAY BE SUBJECT TO CHANGE.
SPEC IS ONLY FOR INFORMATION.
PLEASE CHECK STATUS WITH THE ENGINEER

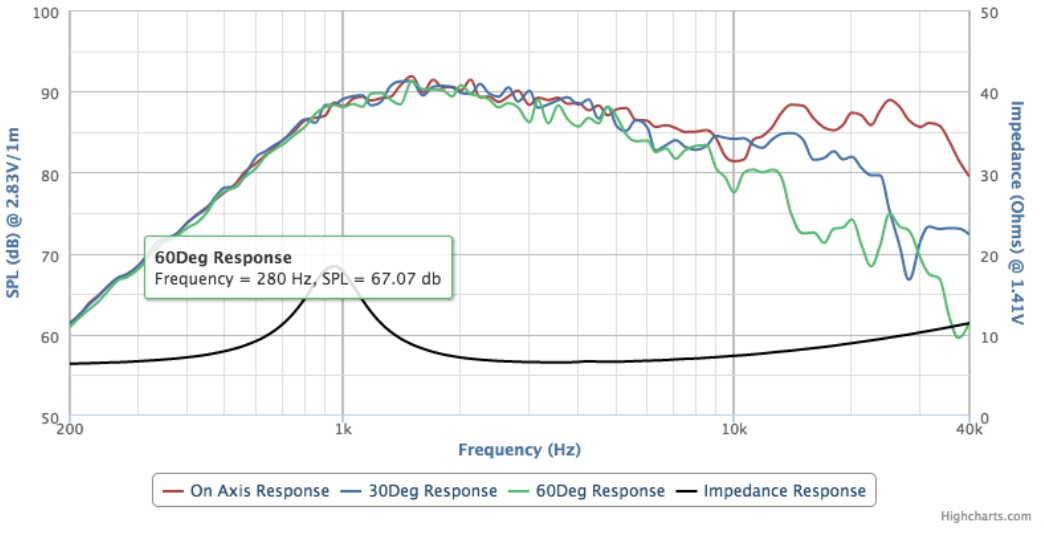
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.11	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	778.63
Minimum Impedance	Zmin	Ohms	6.58	7.5%	Moving Mass	Mms	g	0.21
Voice Coil Inductance	Le	mH	0.02		Suspension Compliance	Cms	um/N	127.77
Resonant Frequency	Fs	Hz	981.07	15%	Effective Cone diameter	D	cm	2.5
Mechanical Q Factor	Qms		2.62		Effective Piston Area	Sd	cm^2	4.9
Electrical Q Factor	Qes		1.26		Effective Volume	Vas	L	0
Total Q Factor	Qts		0.85		Motor Force Factor	BL	Tm	2.48
Ratio Fs/Qts	F	Fs/Qts	1154.2		Motor Efficiency Factor	ß	(T*M^2)/Ohms	1.01
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	88.88	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	88.03	+/- 1.0db	Voice coil inner diameter	VCd	mm	19.3
Gap Height	Gh	mm	2		Rated Noise Power	P	W	120
Maximum Linear Excursion	Xmax	mm	0.1		Test Spectrum Bandwidth	2.5kHz-20KHz		
Ferrofluid Type	FF				Transducer Size	mm	19	
Transducer Mass	Kg	0.3						

Frequency and Impedance Response



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