Driver Specification Sheet

Peerless by TYMPHANY

Model No:: TC9FD18-08
Product Line: Tymphany

Rev: 1
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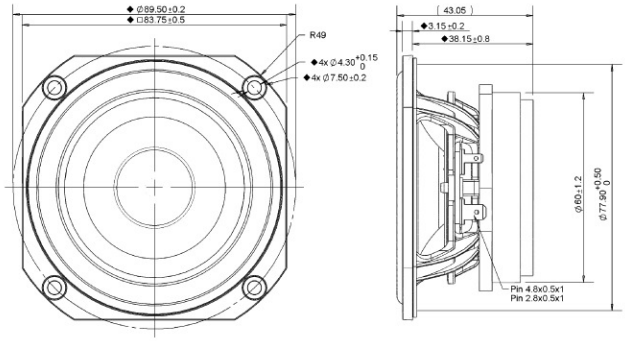
Product Description

This TC family 3.5 inch 8 ohm full-range driver,with ferrite magnet, paper cone, rubber surround, and plastic basket with front sealing gasket, is designed to be a cost-effective high performance full range driver. The cone utilizes Tymphany-patented PentaCut NRSC cone technology to help dampen and control cone resonances, optimizing the listening experience. The motor contains a copper cap to lower inductance and distortion. The product was designed with portable and compact applications in mind.

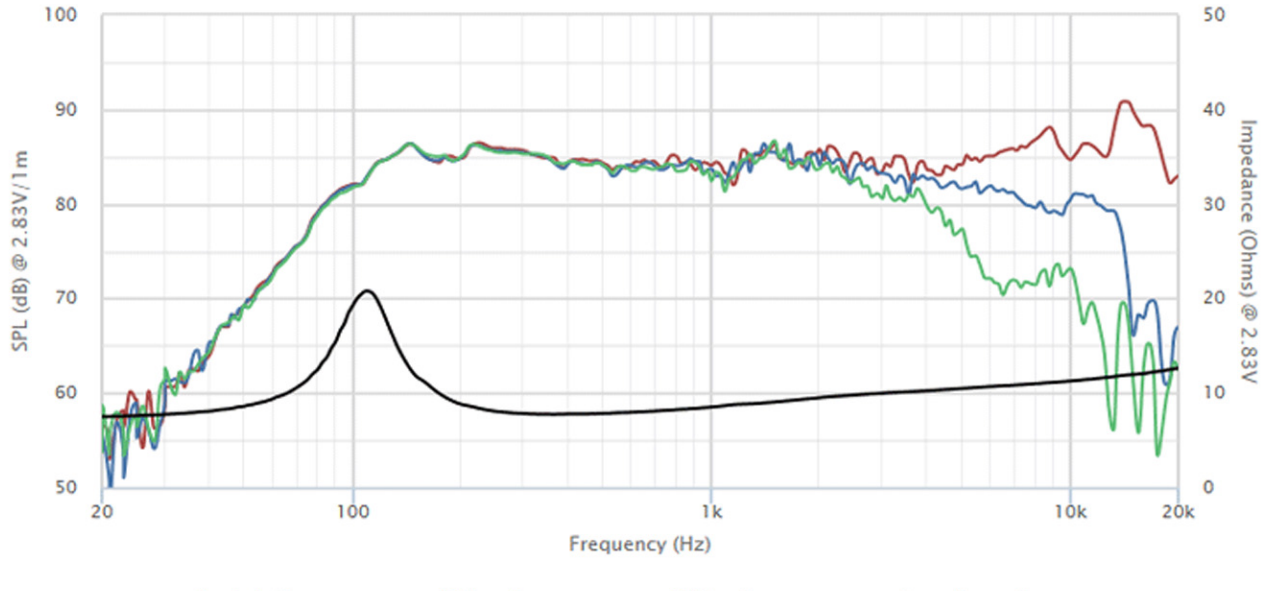
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.32	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.75	7.5%	Moving Mass	Mms	g	2.4
Voice Coil Inductance	Le	mH	0.05		Suspension Compliance	Cms	um/N	669.6
Resonant Frequency	Fs	Hz	124.86	15%	Effective Cone diameter	D	cm	6.8
Mechanical Q Factor	Qms		2.73		Effective Piston Area	Sd	cm^2	36.3
Electrical Q Factor	Qes	1.33			Effective Volume	Vas	L	1.24
Total Q Factor	Qts		0.89		Motor Force Factor	BL	Tm	3.01
Ratio Fs/Qts	F	Fs/Qts	139.82		Motor Efficiency Factor	ß	(T*M^2)/Ohms	1.4
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	84.56	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	84.4	+/- 1.0db	Voice coil inner diameter	VCd	mm	19.43
Gap Height	Gh	mm	4		Rated Noise Power	P	W	30
Maximum Linear Excursion	Xmax	mm	2.6		Test Spectrum Bandwidth	100Hz-20KHz		
Ferrofluid Type	FF				Driver Size	Inch	3.5 in	
Driver Mass	Kg	0.3						

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