

Model No.: TC8FD00-08
 Product Line: Tymphany

Rev: 1
 Last Update: 2017-04-25 21:32:09

Product Description

This TC family 3.0 inch 4 ohm full-range driver, with ferrite magnet, paper cone and rubber surround, and steel basket, 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 television and other compact applications in mind.



Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.71	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	8.14	7.5%	Moving Mass	Mms	g	2.1
Voice Coil Inductance	Le	mH	0.05		Suspension Compliance	Cms	um/N	778.4
Resonant Frequency	Fs	Hz	124.86	15%	Effective Cone diameter	D	cm	6.5
Mechanical Q Factor	Qms		2.84		Effective Piston Area	Sd	cm^2	33.2
Electrical Q Factor	Qes	1.14			Effective Volume	Vas	L	1.2
Total Q Factor	Qts	0.82			Motor Force Factor	BL	Tm	3.1
Ratio Fs/Qts	F	Fs/Qts	153.2		Motor Efficiency Factor	β	(T*M^2)/Ohms	1.4
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	85.05	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	85.1	+/- 1.0db	Voice coil inner diameter	VCd	mm	19.43
Gap Height	Gh	mm	4		Rated Noise Power	P	W	25
Maximum Linear Excursion	Xmax	mm	2.4		Test Spectrum Bandwidth		130Hz~20kHz	
Ferrofluid Type	FF				Driver Size	Inch	3 in	
Driver Mass	Kg	0.3						

Frequency and Impedance Response

