

Model No:: TC6FD00-04

Product Line: Tymphany

Rev: 1

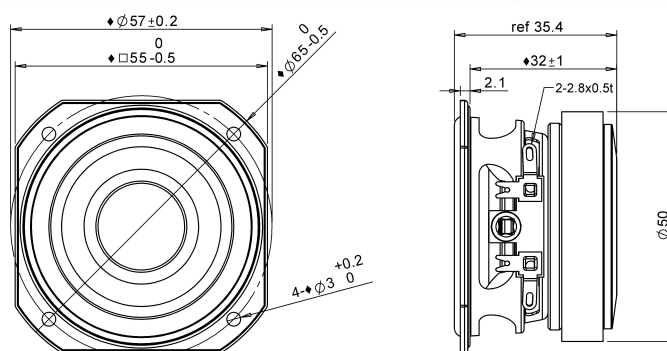
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Product Description

This TC family 2 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	3.54	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	4.09	7.5%	Moving Mass	Mms	g	1.2
Voice Coil Inductance	Le	mH	0.02		Suspension Compliance	Cms	um/N	677
Resonant Frequency	Fs	Hz	175.19	15%	Effective Cone diameter	D	cm	4.4
Mechanical Q Factor	Qms		4.09		Effective Piston Area	Sd	cm^2	15.2
Electrical Q Factor	Qes	1.29			Effective Volume	Vas	L	0.22
Total Q Factor	Qts		0.98		Motor Force Factor	BL	Tm	1.92
Ratio Fs/Qts	F	Fs/Qts	178.58		Motor Efficiency Factor	β	(T*M^2)/Ohms	1
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	84.5	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	81.6	+/- 1.0db	Voice coil inner diameter	VCd	mm	19.32
Gap Height	Gh	mm	3		Rated Noise Power	P	W	15
Maximum Linear Excursion	Xmax	mm	1		Test Spectrum Bandwidth	150Hz - 20kHz		
Ferrofluid Type	FF				Driver Size	Inch	2 in	
Driver Mass	Kg	0.17						

Frequency and Impedance Response

