

Model Number: TG9FD-10-04
Product Line: Peerless Silver

Revision: Rev 1_0
Date: 10-Sep-09

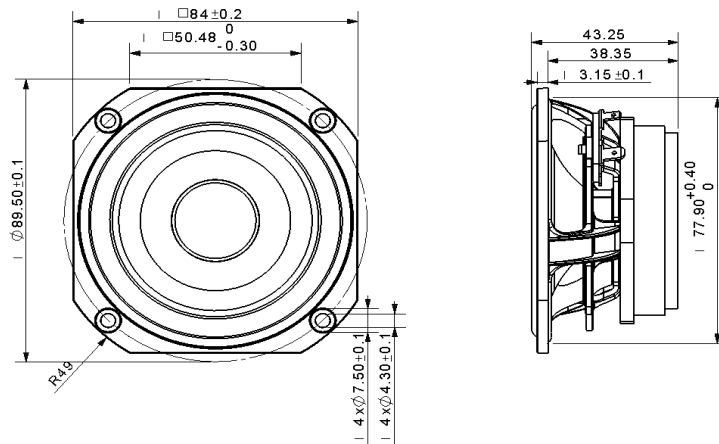


Product Description:

This TC family 3.5 inch 4 ohm full-range driver, with ferrite magnet, glass fiber cone and rubber surround, and damped plastic 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 2D Drawing:

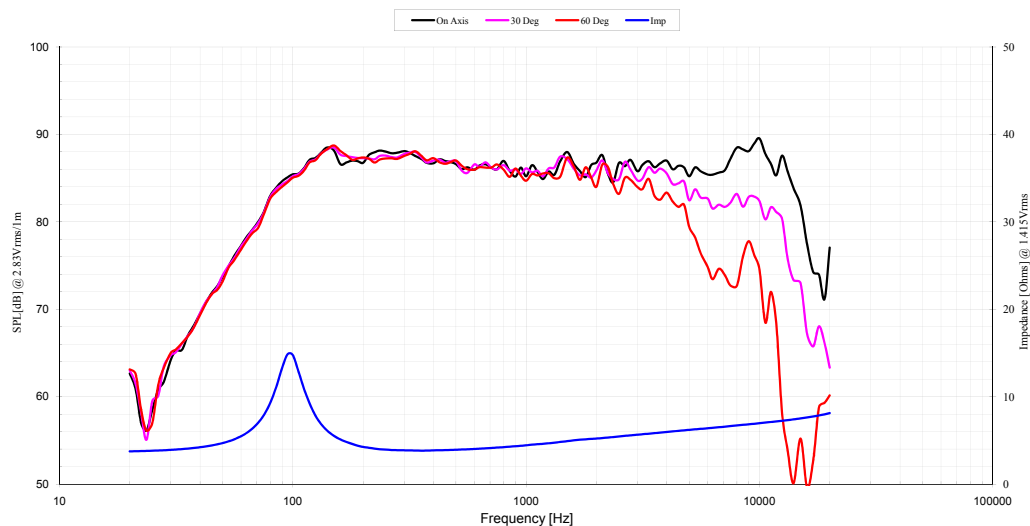


Specifications:

DC Resistance	R_{evc}	Ω	3.2	5.0%	Energy Bandwidth Product	EBP	$(1/Q_{\text{es}}) \cdot f_s$	100
Minimum Impedance	Z_{min}	Ω	3.8	7.5%	Moving Mass	M_{ms}	g	2.83
Voice Coil Inductance	L_e	mH	0.07		Suspension Compliance	C_{ms}	um/N	696.2
Resonant Frequency	f_s	Hz	113	15.0%	Effective Cone Diameter	D	cm	6.8
Mechanical Q Factor	Q_{ms}	-	3.0		Effective Piston Area	S_D	cm ²	36.3
Electrical Q Factor	Q_{es}	-	1.14		Equivalent Volume	V_{as}	L	1.29
Total Q Factor	Q_{ts}	-	0.83		Motor Force Factor	BL	T·m	2.40
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	137		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	1.78
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	87.2	+/-1.0 ¹	Voice Coil Former Material	VC _{fm}	-	Aluminum
Sensitivity @ 1W/1m	1W/1m	dB	84.0	+/-1.0 ¹	Voice Coil Inner Diameter	VC _d	mm	19.4
					Gap Height	Gh	mm	4.0
Rated Noise Power (IEC 2685 18.1)	P	W	5		Maximum Linear Excursion	X_{max}	mm	2.60
Test Spectrum Bandwidth	110Hz - 10kHz		12 dB/Oct		Ferrofluid Type	FF	N/A	
					Transducer Size	-	inch	3.5
					Transducer Mass	-	kg	0.3

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



F088-0713A