

Model Number: TC9FD-18-08

Product Line: Peerless Silver

Revision: Rev 3_0
Date: 9-Oct-12

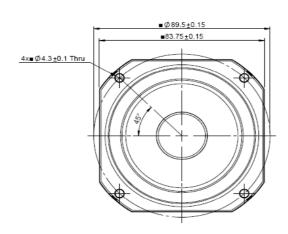


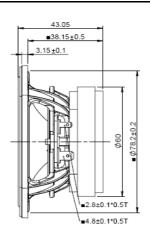
Product Description:

This TC family 3.5 inch 8 Ω full-range driver, with ferrite magnet, paper cone and rubber surround, and 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	6.3	±7.5%	Energy Bandwidth Product	EBP	(1/Q _{es})-f _s	94
Minimum Impedance	Z_{min}	Ω	7.8	±7.5%	Moving Mass	M _{ms}	g	2.43
Voice Coil Inductance	L _e	mH	0.05		Suspension Compliance	C_{ms}	um/N	669.6
Resonant Frequency	fs	Hz	125	±15%	Effective Cone Diameter	D	cm	6.8
Mechanical Q Factor	Q_{ms}	-	2.7		Effective Piston Area	SD	cm ²	36.3
Electrical Q Factor	Q _{es}	-	1.33		Equivalent Volume	V _{as}	L	1.241
Total Q Factor	Q_{ts}	-	0.89		Motor Force Factor	BL	T⋅m	3.01
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	140		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	1.43
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	84.6	±1.01	Voice Coil Former Material	VC_{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	83.5	±1.0 1	Voice Coil Inner Diameter	VC_d	mm	19.43
					Gap Height	Gh	mm	4.00
Rated Noise Power (IEC 2685 18.1)	Р	W	30		Maximum Linear Excursion	X_{max}	mm	2.55
Test Spectrum Bandwidth 100Hz-		Hz	12 d	B/Oct	Ferrofluid Type	FF		N/A
					Transducer Size	-	-	3.5 inch
ston Band Sensitivity Tolerance					Transducer Mass	-	Kg	0.30

Frequency and Impedance Response:

