

 Model Number:
 TC8FD00-04
 Revision:
 Rev1_0

 Product Line:
 Peerless Silver
 Date:
 10-May-11

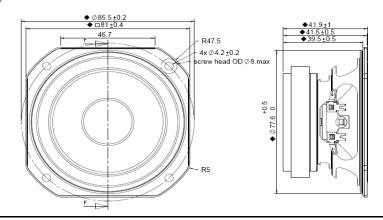


Product Description:

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 2D Drawing:



Specifications:

DC Resistance	R _{evc}	Ω	3.3	±7.5%	Energy Bandwidth Product	EBP	(1/Q _{es})⋅f _s	102
Minimum Impedance	Z_{min}	Ω	4.2	±7.5%	Moving Mass	M _{ms}	g	2.55
Voice Coil Inductance	Le	mH	0.03		Suspension Compliance	C_{ms}	um/N	637.3
Resonant Frequency	f _s	Hz	125	±15%	Effective Cone Diameter	D	cm	6.5
Mechanical Q Factor	Q _{ms}	-	3.7		Effective Piston Area	SD	cm ²	33.2
Electrical Q Factor	Q _{es}	-	1.23		Equivalent Volume	Vas	L	0.986
Total Q Factor	Q _{ts}	-	0.92		Motor Force Factor	BL	T⋅m	2.32
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	136		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	1.63
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	85.7	±1.0 1	Voice Coil Former Material	VC_{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	81.8	±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)	Р	W	25		Maximum Linear Excursion	X _{max}	mm	2.4
Test Spectrum Bandwidth	Test Spectrum Bandwidth 130Hz~20kHz		12 dB/Oct		Ferrofluid Type	FF		N/A
					Transducer Size	-	-	3 inch
1 - Piston Band Sensitivity Tolerance					Transducer Mass	-	Kg	0.3

Frequency and Impedance Response:

