

HDS Exclusive 5¹/₄" Midwoofer

Peerless

Type Number: 831882

Features:

This High Definition Sound (HDS) line of products push the performance limits of midbass audio transducers in a range of sizes - from the standard 205mm (8-inch) model, down to the very small 106mm (4-inch) model. Feature-rich and utilizing copper for the lowest distortion possible, the high-end HDS Exclusive Series takes maximum advantage of over 80 years of R&D experience to help systems designers build the world's best audio products.

Driver Highlights: Nomex diaphragm, 26 mm coil, AL, CU, Phaseplug

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Specs:

Electrical Data Nominal impedance Minimum impedance Maximum impedance DC resistance Voice coil inductance	Zn Zmin Zo Re Le	8 6.7 58.3 5.9 0.8	ohm ohm ohm ohm mH
T-S Parameters Resonance Frequency Mechanical Q factor Electrical Q factor Total Q factor Force factor Mechanical resistance Moving mass Suspension compliance Effective cone diameter Effective piston area Equivalent volume Sensitivity (2.83V/1m) Ratio BL/√(Re) Ratio fs/Qts	fs Qms Qes Qts BI Rms Cms Cms D Sd Vas	64.5 3.85 0.43 0.39 7 0.93 8.8 0.69 10.5 87 7.2 88.2 2.9 165	Hz Tm Kg/s g mm/N cm cm ² Itrs dB

Power handling

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100h RMS noise test (IEC)		W	
Long-term Max Power (IEC 18.3)		W	
Max linear SPL (rms) @ power		dB/W	
Short Term Max power (IEC 18.2)		W	
Voice Coil and Magnet Parameters			
Voice coil diameter	26	mm	
Voice coil height	13	mm	
Voice coil layers	2		
Height of the gap	6	mm	
Linear excursion +/-	3.5	mm	
Max mech. excursion +/-		mm	
Flux density of gap		mWb	
Total useful flux	0.89	mWb	
Diameter of magnet	90	mm	
Height of magnet	15	mm	
Weight of magnet	0.4	Kg	

Notes:

IEC specs refer to IEC 60268-5 third edition. All Tymphany products are RoHS compliant.



Mechanical Dimensions:



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