

HDS Exclusive 5¼" Midwoofer



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.

See architecture notes for **HDS Platform**

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

Phaseplug

Go to Architecture Notes

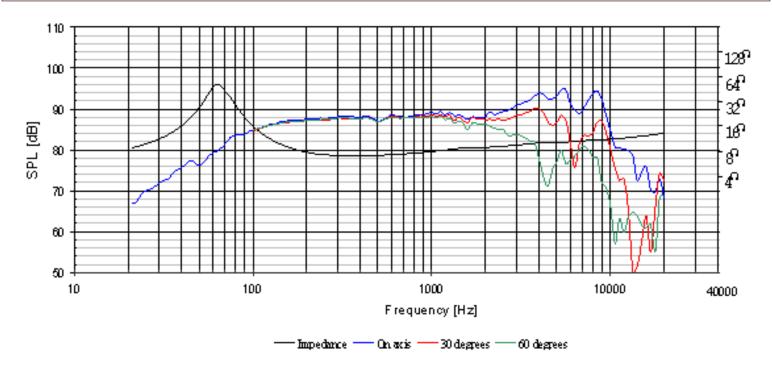




Specs:

Electrical Data Nominal impedance Minimum impedance	Zn Zmin	8 6.7	ohm ohm	Power handling 100h RMS noise test (IEC) Long-term Max Power (IEC 18.3)	 	W W
Maximum impedance	Zo	58.3	ohm	Max linear SPL (rms) @ power		dB/W
DC resistance	Re	5.9	ohm	Short Term Max power (IEC 18.2)		W
Voice coil inductance	Le	0.8	mH	Voice Coil and Magnet Parameters		
T-S Parameters				Voice coil diameter	26	mm
Resonance Frequency	fs	64.5	Hz	Voice coil height	13	mm
Mechanical Q factor	Qms	3.85		Voice coil layers	2	
Electrical Q factor	Qes	0.43		Height of the gap	6	mm
Total Q factor	Qts	0.39		Linear excursion +/-	3.5	mm
Force factor	BI	7	Tm	Max mech. excursion +/-		mm
Mechanical resistance	Rms	0.93	Kg/s	Flux density of gap		mWb
Moving mass	Mms	8.8	g	Total useful flux	0.89	mWb
Suspension compliance	Cms	0.69	mm/N	Diameter of magnet	90	mm
Effective cone diameter	D	10.5	cm	Height of magnet	15	mm
Effective piston area	Sd	87	cm ²	Weight of magnet	0.4	Kg
Equivalent volume	Vas	7.2	Itrs	o o		
Sensitivity (2.83V/1m)		88.2	dB			
Ratio BL/√(Re)		2.9		Notes:		
Ratio fs/Qts	F	165		IEC specs refer to IEC 60268-5 third edition. All Tymphany products are RoHS compliant.		
1000 107 900				7.11 Tymphany products are Norto compliant.		

Frequency: 831882



Mechanical Dimensions:831882

