

## HDS Nomex 4" Midrange



Type Number: 830872

### Features:

The High Definition Sound (HDS) NOMEX Series offers high-quality solutions for both multi-way speaker systems and vented box applications. Featuring "shorting rings" for low distortion and coils offering perfect linear compatibility with NOMEX cones, these audio transducers are characterized by their very open, very rich sound character.

See architecture notes for [HDS Platform](#)

Driver Highlights: Shielded for television and PC Applications, Nomex diaphragm, 26 mm coil, AL, Shielded

[Go to Architecture Notes](#)



### Specs:

#### Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	6.3	ohm
Maximum impedance	Zo	29.7	ohm
DC resistance	Re	5.6	ohm
Voice coil inductance	Le	0.8	mH

#### T-S Parameters

Resonance Frequency	fs	85.1	Hz
Mechanical Q factor	Qms	2.19	
Electrical Q factor	Qes	0.51	
Total Q factor	Qts	0.42	
Force factor	Bl	6.1	Tm
Mechanical resistance	Rms	1.55	Kg/s
Moving mass	Mms	6.4	g
Suspension compliance	Cms	0.55	mm/N
Effective cone diameter	D	8.4	cm
Effective piston area	Sd	55	cm <sup>2</sup>
Equivalent volume	Vas	2.3	ltrs
Sensitivity (2.83V/1m)		87.1	dB
Ratio BL/√(Re)		2.6	
Ratio fs/Qts	F	204	

#### Power handling

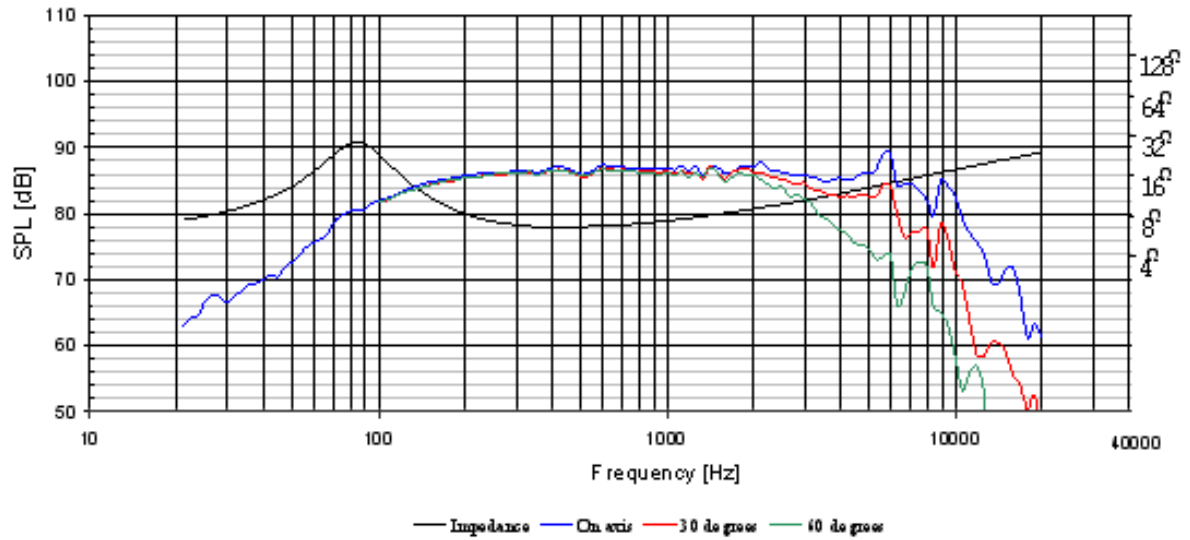
Long-term Max Power (IEC 18.3)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

#### Voice Coil and Magnet Parameters

Voice coil diameter	26	mm
Voice coil height	11	mm
Voice coil layers	2	
Height of the gap	6	mm
Linear excursion +/-	2.5	mm
Flux density of gap	--	mWb
Total useful flux	0.7	mWb
Diameter of magnet	72	mm
Height of magnet	25	mm
Weight of magnet	0.39	Kg

Notes:  
IEC specs refer to IEC 60268-5 third edition.  
All Tympany products are RoHS compliant.

Frequency: 830872



Mechanical Dimensions:830872

