

This 6.5 inch 8 ohm driver is a member of the high performance HDA (High Definition Audio) series.

- ▶ Powerful high grade Ferrite magnet system.
- ▶ FEA designed suspension system.
- ▶ Optimized motor structure and voice coil design for stability and extended frequency response with low distortion.
- ▶ Composite PP cone with specialized Titanium Coating , offering unique visual and acoustic experience.
- ▶ Half roll rubber surround for longevity and consistency across seasons and years.

HDA series offers high quality drivers for multi-way speaker system and best suited for bass-reflex designs.

GENERAL SPECIFICATIONS:

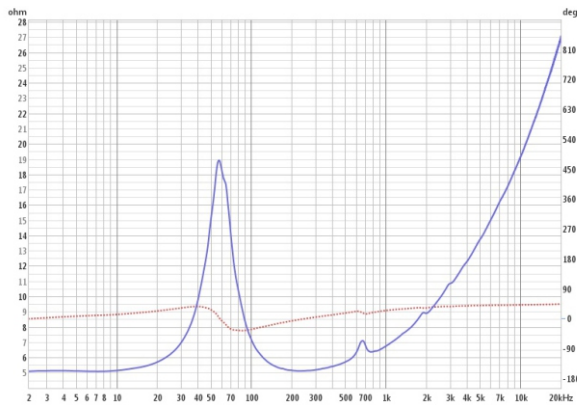
Nominal diameter, D	in.	6.5
Nominal impedance, Z	Ω	8
Minimum impedance, Zmin	Ω	5.6
RMS Power rating	watt	50
Sensitivity (Lp)	(1W/1m)@1V	86.30 dB
Frequency range	Hz	40-10000
Voice coil diameter	mm	26
Chassis material	Mild Steel	
Magnet material	Ferrite Y35	
Magnet dimensions OD x ID x h	mm	86x32x15
Coil material	Copper	
Former material	Aluminum	
Cone material	Titanium Coated PP	
Surround material	Nitrile Rubber	
Xmax (4)	mm	5
Xmech (5)	mm	15
Gap height	mm	5
Voice coil winding height	mm	11.5

SMALL SIGNAL PARAMETERS:

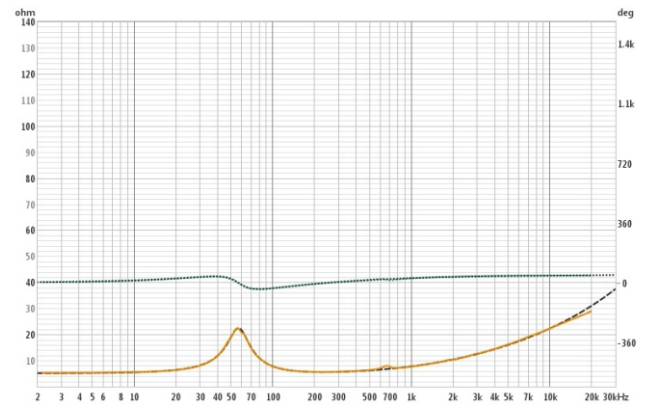
DC resistance, Rdc	Ω	5.40
Resonance frequency, Fs	Hz	60.7
Moving mass, Mms	g	13.45
Compliance, Cms	mm/N	0.511
Force factor, Bl	Tm	4.965
Mechanical Q-factor, Qms		2.950
Electrical Q-factor, Qes		1.076
Total Q-factor, Qts		0.788
Equivalent air volume, Vas	litres	12.76
Voice coil Inductance, Le	mH	1.238
Diaphragm area, Sd	cm ²	132.7
Mechanical resistance, Rms	kg/s	1.740



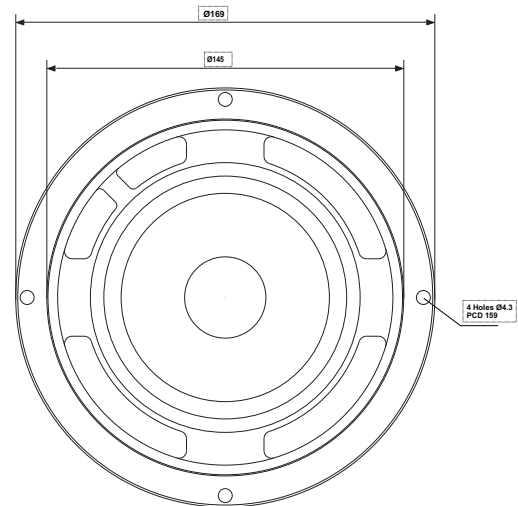
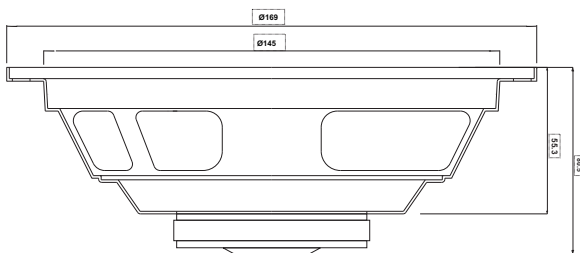
FREQUENCY RESPONSE:



IMPEDANCE:



DRAWING DIMENSIONS (mm)



NOTE:

- (1). Tested for two hours using a continuous band-limited pink noise signal as per AES 2-1984 Rev. 2003.
- (2). Loudspeaker tested in free air.
- (3). T/S Parameters, measured and cross validated with two different modules.
- (4). Its measured after pre-conditioning at 25°C- 30°C, 50% humidity for 2 hours.
- (5). Xmax is calculated as:

$$(H_{vc} - H_g) / 2 + H_g/4$$
 Hvc is the voice coil height and Hg is the height of gap.