This 5.25 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.
- Engineered fiber glass composite diaphragm, 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.

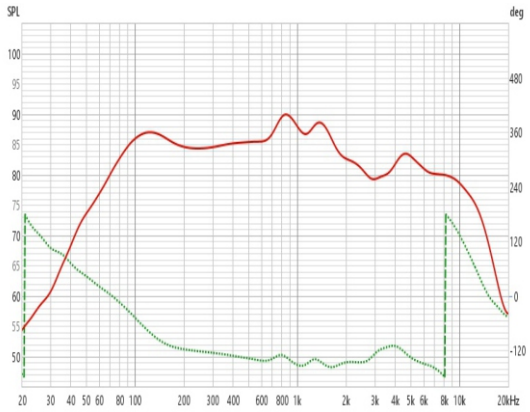
GENERAL SPECIFICATIONS:

Nominal diameter, D	in.	5.25
Nominal impedance, Z	Ω	8
Minimum impedance, Zmin	Ω	6.46
RMS Power rating	watt	40
Sensitivity (Lp)	(1W/1m)@1V	89.61 dB
Frequency range	Hz	50-4000
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	Kapton	
Cone material	Composite Glass Fiber	
Surround material	Nitrile Rubber	
Xmax (4)	mm	4.5
Xmech (5)	mm	14
Gap height	mm	5
Voice coil winding height	mm	9.5

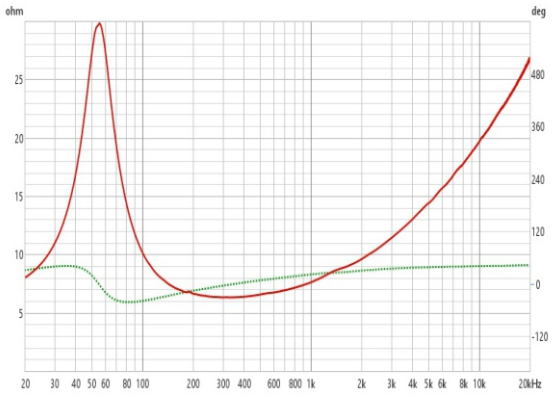
SMALL SIGNAL PARAMETERS:

DC resistance, Rdc	Ω	6.20
Resonance frequency, Fs	Hz	57.8
Moving mass, Mms	g	6.35
Compliance, Cms	mm/N	1.195
Force factor, Bl	Tm	5.096
Mechanical Q-factor, Qms		2.247
Electrical Q-factor, Qes		0.518
Total Q-factor, Qts		0.421
Equivalent air volume, Vas	litres	15.31
Voice coil Inductance, Le	mH	1.049
Diaphragm area, Sd	cm^2	95.0
Mechanical resistance,Rms	kg/s	1.025

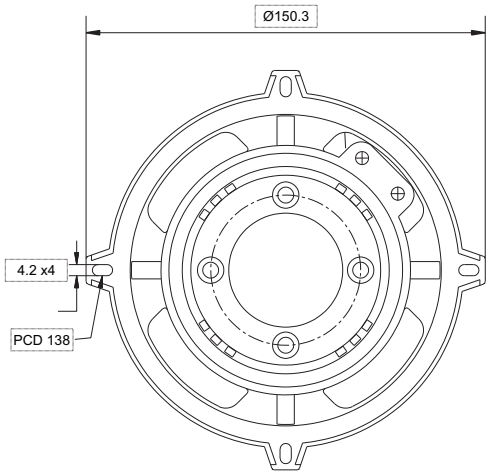
FREQUENCY RESPONSE:

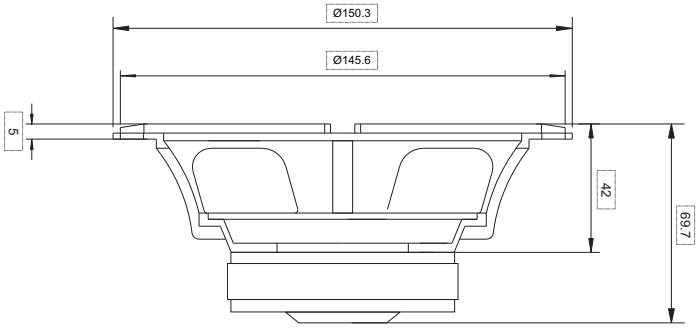


IMPEDANCE:



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:
(Hvc – Hg) / 2 + Hg/4. Hvc is the voice coil height and Hg is the height of gap.