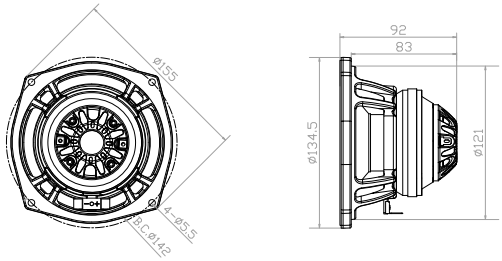
T05W44-8PN

COAXIAL DRIVER

KEY FEATURES

- 88dB & 105dB 1W/1m sensitivity
- 150W & 25W AES power handling
- 75Hz-18kHz frequency response
- 44.2mm (1.7in) & 36mm (1.4in) voice coil
- Shared lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for multiple sound sources systems and compact systems

MECHANICAL DRAWING

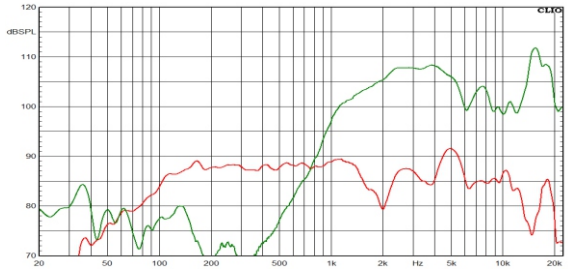


GENERAL SPECIFICATIONS

Part Number	T05W44-8PN
Nominal Diameter	134.5mm (5in)
Nominal Impedance	LF : 8Ω HF : 8Ω
Minimum Impedance	LF : 5.8Ω at 400Hz HF : 7.1Ω at 4000Hz
AES Power Handling[1]	LF : 150W HF : 25W
Maximum Power Handling[2]	LF : 300W HF : 50W
(1W/1m) Sensitivity (1W/1m)[3]	LF : 88dB HF : 105dB
Resonance Frequency	75Hz
Recommended Crossover[4]	2kHz
Frequency Range	LF : 75Hz-2kHz HF : 1.5kHz-18kHz
Voice Coil Diameter	LF : 44.2mm HF : 36mm
Winding Material	LF : Copper Clad Aluminum HF : Flat Aluminum
Former Material	LF : Glass Fiber HF : Kapton
Winding Depth	WF : 14.2mm TW : 2.5mm
Magnetic Gap Depth	LF : 6mm HF : 3mm
Xmax[5]	LF : 6.1mm
Flux Density	WF : 1.0T TW : 1.7T
Basket Material	Cast Aluminum
Magnet Material	LF&HF : Neodymium
Suspension Material	Fabric
Surround Material	Half-Roll Rubber
Cone Material	Curvilinear Paper
Diaphragm Material	Polymer
Phase Plug Material	Plastic
Cover Material	Plastic
Net Weight	1.06kg

FREQUENCY RESPONSE CURVE

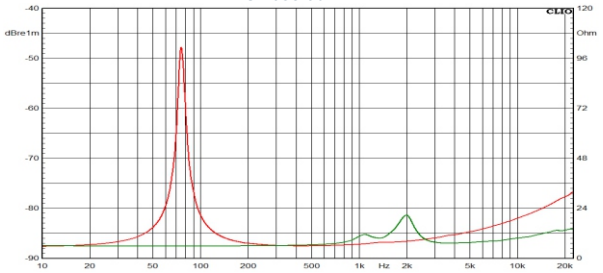
LogChirp-Frequency Response



Test conditions: 1W/1m standard test box in anechoic chamber.

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[6]

Fs	75Hz	Qms	8.6
Re	5.0Ω	Qes	0.44
Le	0.24mH	Qts	0.42
Mms	12.6g	Vas	3.7L
Mmd	12.1g	Ref. Efficiency	0.34%
Cms	0.35mm/N	Sd	86. 6cm^2
BL	8.2Tm	EBP	178Hz

NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
   Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range.Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.