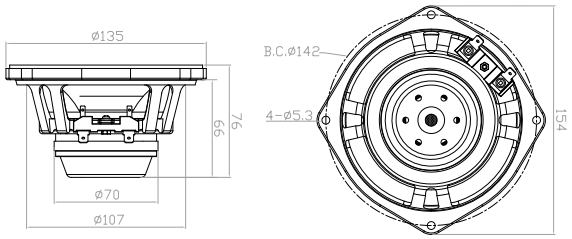
05W35-8NX

BASS/MID RANGE DRIVER

KEY FEATURES

- 94dB 1W/1m sensitivity
- 80W AES power handling
- 120Hz-10kHz frequency response
- 35.5mm (1.4in) copper clad aluminum voice coil
- Lightweight neodymium ring motor system
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multi-way systems

MECHANICAL DRAWING

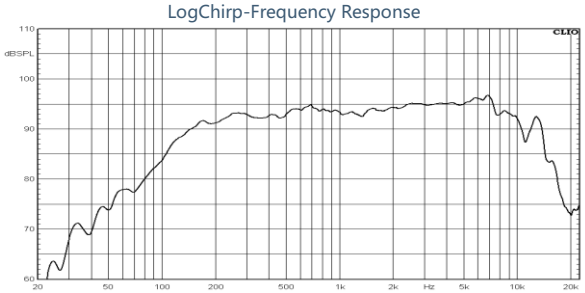


GENERAL SPECIFICATIONS

Part Number	05W35-8NX
Nominal Diameter	135mm (5in)
Nominal Impedance	8Ω
Minimum Impedance	6.0Ω
AES Power Handling[1]	80W
Maximum Power Handling[2]	160W
Sensitivity (1W/1m)[3]	94dB
Resonance Frequency	120Hz
Frequency Range	120Hz-10kHz
Voice Coil Diameter	35.55mm
Winding Material	Copper Clad Aluminum
Former Material	Glass Fiber
Winding Depth	10mm
Magnetic Gap Depth	5mm
Xmax[4]	4.2mm
Flux Density	1.4T
Basket Material	Cast Aluminum
Magnet Material	Neodymium Ring
Suspension Material	Fabric
Surround Material	W-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	0.8kg

FREQUENCY RESPONSE CURVE

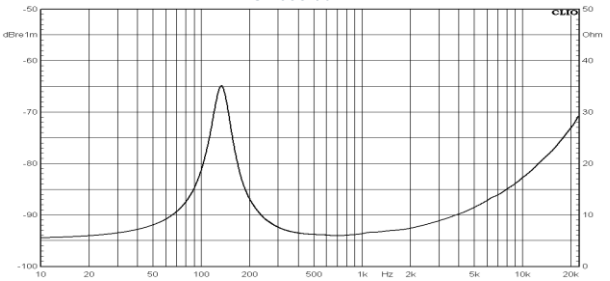
LogChirp-Frequency Response



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

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	127Hz	Qms	3.4
Re	5.6Ω	Qes	0.47
Le	0.21mH	Qts	0.41
Mms	8.7g	Vas	1.7L
Mmd	8.3g	Ref. Efficiency	0.7%
Cms	0.16mm/N	Sd	86.6cm^2
BL	9.5Tm	EBP	270Hz

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. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
5. Thiele-Small parameters are measured after a preconditioning test.
6. Power test by continuous pink noise signal within the frequency range.