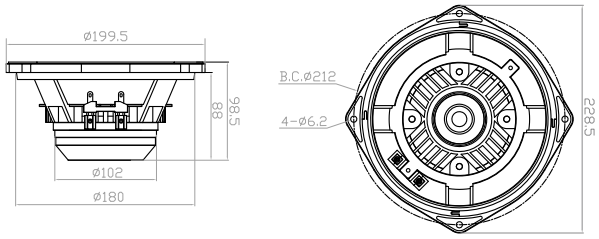
08W50-8NXH 16Ω Available

BASS/MID RANGE DRIVER

KEY FEATURES

- 97dB 1W/1m sensitivity
- 250W AES power handling
- 78Hz-5kHz frequency response
- 50.6mm (2.0in) copper clad aluminum voice coil
- Lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Ventilated voice coil gap for reduced power compression
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multi-way systems

MECHANICAL DRAWING

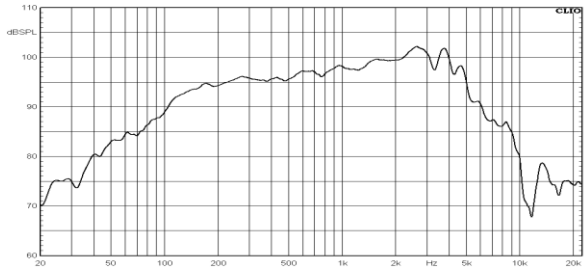


GENERAL SPECIFICATIONS

Part Number	08W50-8NXH
Nominal Diameter	199.5mm (8in)
Nominal Impedance	8Ω
Minimum Impedance	6.5Ω
AES Power Handling[1]	250W
Maximum Power Handling[2]	500W
Sensitivity (1W/1m)[3]	97dB
Resonance Frequency	78Hz
Frequency Range	78Hz-5kHz
Voice Coil Diameter	50.6mm
Winding Material	Copper Clad Aluminum
Former Material	Glass Fiber
Winding Depth	15.4mm
Magnetic Gap Depth	8mm
Xmax[4]	6.4mm
Flux Density	1.4T
Basket Material	Cast Aluminum
Magnet Material	Neodymium Ring
Suspension Material	Fabric
Surround Material	M-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	2.2kg

FREQUENCY RESPONSE CURVE

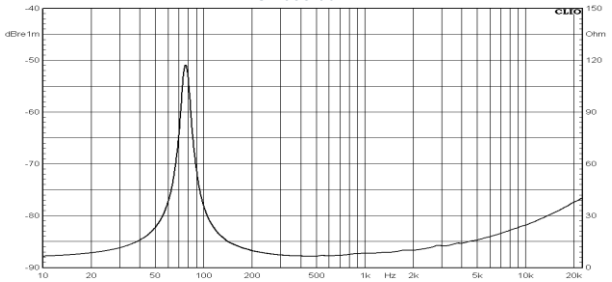
LogChirp-Frequency Response



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

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	77Hz	Qms	6.1
Re	5.3Ω	Qes	0.29
Le	0.31mH	Qts	0.27
Mms	23g	Vas	12L
Mmd	21g	Ref. Efficiency	1.8%
Cms	0.18mm/N	Sd	214cm^2
BL	14.4Tm	EBP	265Hz

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.