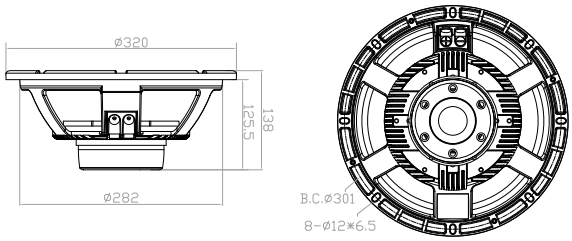
12W86-8NX 16Ω Available

BASS/MID RANGE DRIVER

KEY FEATURES

- 99dB 1W/1m sensitivity
- 600W AES power handling
- 50Hz-2.5kHz frequency response
- 86mm (3.4in) copper clad aluminum voice coil
- Lightweight neodymium inside slug motor system
- Ventilated voice coil gap for reduced power compression
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and compact two way systems

MECHANICAL DRAWING

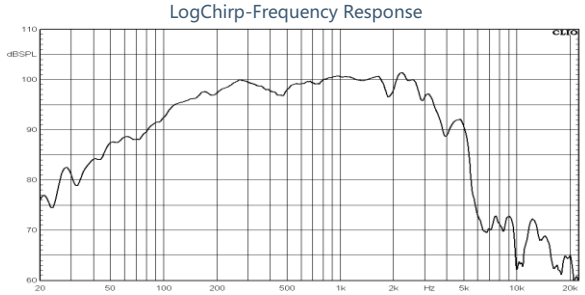


GENERAL SPECIFICATIONS

Part Number	12W86-8NX
Nominal Diameter	320mm (12in)
Nominal Impedance	8Ω
Minimum Impedance	6.7Ω
AES Power Handling[1]	600W
Maximum Power Handling[2]	1200W
Sensitivity (1W/1m)[3]	99dB
Resonance Frequency	50Hz
Frequency Range	50Hz-2.5kHz
Voice Coil Diameter	86mm
Winding Material	Copper Clad Aluminum
Former Material	Glass Fiber
Winding Depth	21mm
Magnetic Gap Depth	11mm
Xmax[4]	8.7mm
Flux Density	1.3T
Basket Material	Cast Aluminum
Magnet Material	Neodymium Inside Slug
Suspension Material	Fabric
Surround Material	M-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	4.3kg

FREQUENCY RESPONSE CURVE

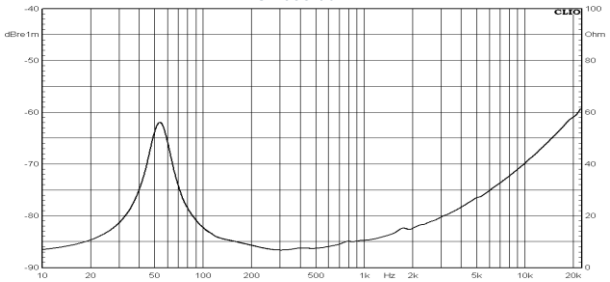
LogChirp-Frequency Response



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

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	53Hz	Qms	2.8
Re	5.0Ω	Qes	0.27
Le	0.53mH	Qts	0.25
Mms	79g	Vas	43L
Mmd	72g	Ref. Efficiency	2.4%
Cms	0.11mm/N	Sd	531cm^2
BL	22Tm	EBP	196Hz

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.