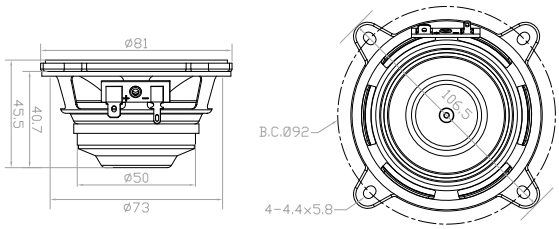
03W19-8CN 4Ω &16Ω Available

BASS/MID RANGE DRIVER

KEY FEATURES

- 90dB 1W/1m sensitivity
- 25W AES power handling
- 110Hz-20kHz frequency response
- 19.45mm (0.75in) aluminum voice coil
- Neodymium ring magnetic structure
- Suitable for sound column systems and multi-way systems

MECHANICAL DRAWING

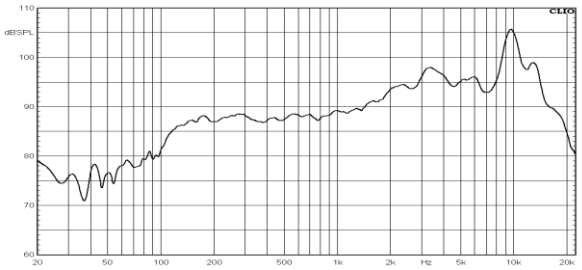


GENERAL SPECIFICATIONS

Part Number	03W19-8CN
Nominal Diameter	81mm (3in)
Nominal Impedance	8Ω
Minimum Impedance	7.1Ω
AES Power Handling[1]	25W
Maximum Power Handling[2]	50W
Sensitivity (1W/1m)[3]	90dB
Resonance Frequency	110Hz
Frequency Range	110Hz-20kHz
Voice Coil Diameter	19.45mm
Winding Material	Aluminum
Former Material	Polyimide
Winding Depth	5mm
Magnetic Gap Depth	4mm
Xmax[4]	1.8mm
Flux Density	1.4T
Basket Material	Pressed Steel
Magnet Material	Neodymium Ring
Suspension Material	Fabric
Surround Material	Half-Roll Rubber
Cone Material	Curvilinear Paper
Net Weight	0.25kg

FREQUENCY RESPONSE CURVE

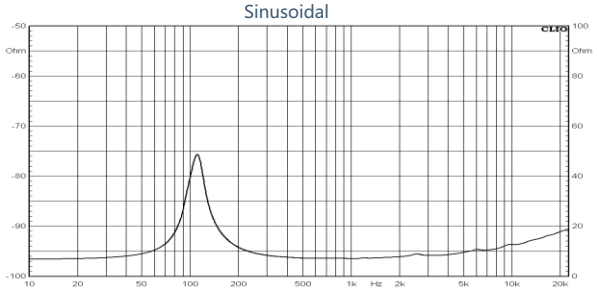
LogChirp-Frequency Response



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

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	110Hz	Qms	4.7
Re	6.5Ω	Qes	0.62
Le	0.12mH	Qts	0.55
Mms	2.7g	Vas	1.2L
Mmd	2.6g	Ref. Efficiency	0.24%
Cms	0.76mm/N	Sd	33cm^2
BL	4.5Tm	EBP	177Hz

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.