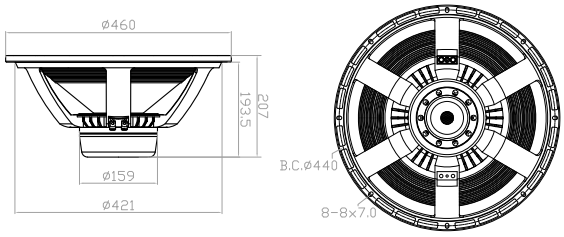
18SW100-8NW 4Ω Available

BASS/MID RANGE DRIVER

KEY FEATURES

- 97.5dB 1W/1m sensitivity
- 1200W AES power handling
- 35Hz-1kHz frequency response
- 99.3mm (4.0in) copper voice coil
- Lightweight neodymium inside slug motor system
- Aluminum demodulating ring for lower distortion
- Double silicon spider for superior excursion control and linearity
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for high SPL subwoofer designs

MECHANICAL DRAWING

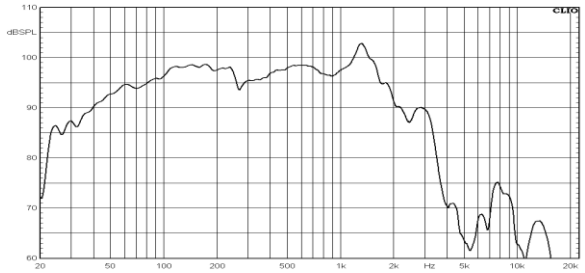


GENERAL SPECIFICATIONS

Part Number	18SW100-8NW
Nominal Diameter	460mm (18in)
Nominal Impedance	8Ω
Minimum Impedance	6.4Ω
AES Power Handling[1]	1200W
Maximum Power Handling[2]	2400W
Sensitivity (1W/1m)[3]	97.5dB
Resonance Frequency	35Hz
Frequency Range	35Hz-1kHz
Voice Coil Diameter	99.3mm
Winding Material	Copper
Former Material	Glass Fiber
Winding Depth	28.6mm
Magnetic Gap Depth	12.5mm
Xmax[4]	12.2mm
Flux Density	1.1T
Basket Material	Cast Aluminum
Magnet Material	Neodymium Inside Slug
Suspension Material	Double Fabric
Surround Material	W-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	8.6kg

FREQUENCY RESPONSE CURVE

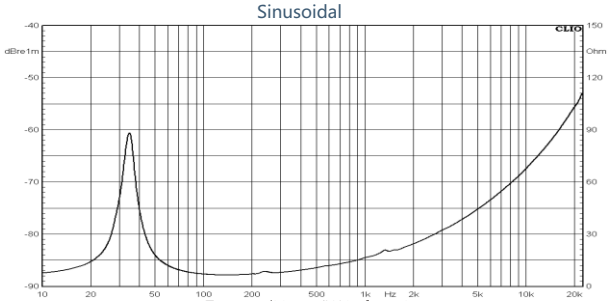
LogChirp-Frequency Response



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

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	35Hz	Qms	6.5
Re	5.3Ω	Qes	0.41
Le	0.89mH	Qts	0.39
Mms	228g	Vas	192L
Mmd	204g	Ref. Efficiency	1.9%
Cms	0.09mm/N	Sd	1225cm^2
BL	25.2Tm	EBP	85Hz

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.