

18N1200



HIGH POWER LOW DISTORTION EXTENDED LOW FREQUENCY TRANSDUCER FOR BASS REFLEX AND BAND PASS SYSTEM

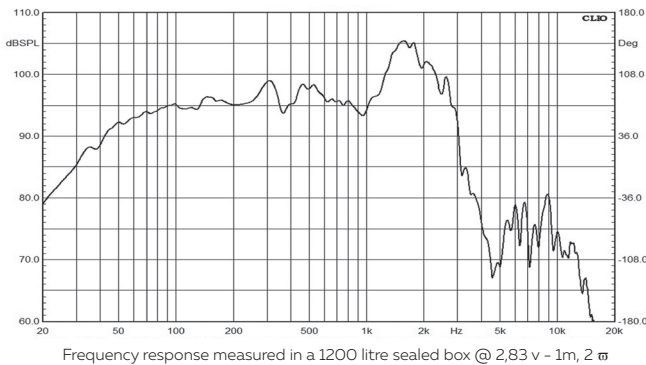
Main features:

- aluminum die-cast octagonal frame with small installation dimensions;
- removable self-centering neodymium magnet system;
 - inside-outside copper voice coil;
 - ventilated voice coil gap;
- double aluminum demodulation ring;
- glass fiber reinforced weather protected cone.

Main specifications:

- 18" nominal diameter;
- 2400 W AES program power;
- 96 dB 1W/1m sensitivity;
- 4" copper voice coil;
- 9,8 kg weight.

Frequency response



Nominal diameter, inches (mm)	18(460)
Nominal impedance, Ohm	8
Rated power (AES), W	1200*
Frequency range, Hz	35-1000
Sensitivity (1W / 1m), dB	96
Minimum impedance, Ohm	7,1@165Hz
Bl product, Tm	31,2
Voice coil inductance, mH (1kHz)	1,2
Moving mass Mms, g	285

Specifications

Diameter, inches (mm)	4(100)
Winding material	copper
Former material	glass fiber
Winding depth, mm	30
Magnetic gap depth, mm	12
Flux density, T	1,28

Voice coil and Magnetic system

Fs, Hz	36
Vas, l	148
Qts	0,37
Qes	0,38
Qms	13
Re, Ohm	5,8
Sd, cm ²	1235
Xmax, mm	12***
n, %	1,75

Thiele-Small parameters**

Overall diameter, mm	488/480
Baffle cutout diameter, mm	424
Bolt hole diameter, mm	7,5/9,5
Bolt circle diameter, mm	450
Height, mm	218
Net weight, kg	9,8

Mounting information

* Rated power is determined according to AES2 - 1984 (r2003) standard.
 ** TS parameters are measured after a preconditioning power test.
 *** Xmax is calculated as: $(Hvc - Hg) / 2 + Hg / 4$ where Hvc is the voice coil winding depth and Hg is the gap depth.