

M1808

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



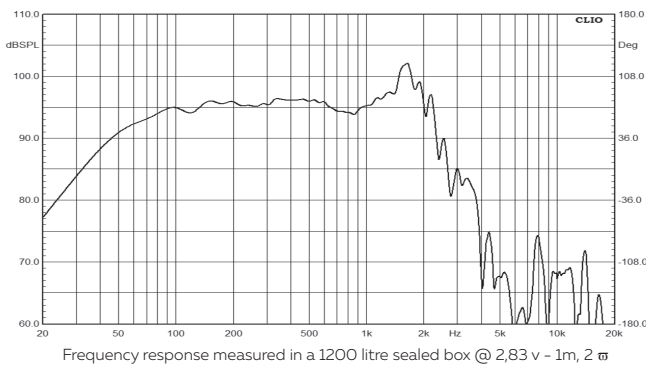
Main features:

- aluminum die-cast frame with improved voice coil ventilation;
- removable self-centering ferrite magnet system;
 - inside-outside copper voice coil;
 - ventilated voice coil gap;
 - double aluminum demodulation ring;
- glass fiber reinforced weather protected cone.

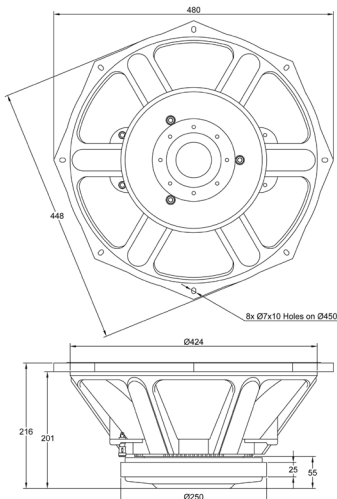
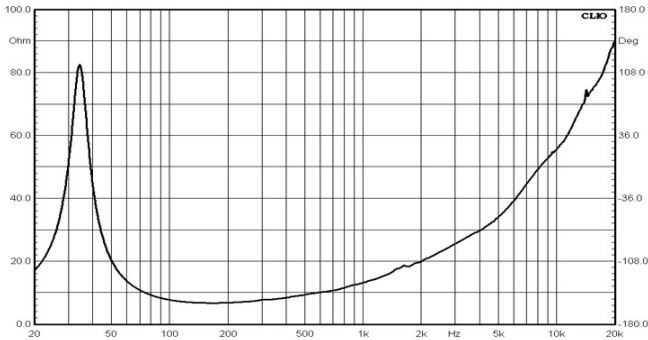
Main specifications:

- 18" nominal diameter;
- 3200 W AES program power;
- 97 dB 1W/1m sensitivity;
- 4,5" copper voice coil;
- 14,9 kg weight.

Frequency response



Free air impedance



Nominal diameter, inches (mm)	18(460)
Nominal impedance, Ohm	8
Rated power (AES), W	1600*
Frequency range, Hz	35-1000
Sensitivity (1W / 1m), dB	97
Minimum impedance, Ohm	6,7@175Hz
Bl product, Tm	29,8
Voice coil inductance, mH (1kHz)	1,27
Moving mass Mms, g	274

Diameter, inches (mm)	4,5(115)
Winding material	copper
Former material	glass fiber
Winding depth, mm	30
Magnetic gap depth, mm	11
Flux density, T	1,1

Fs, Hz	34,5
Vas, l	172
Qts	0,34
Qes	0,36
Qms	5,2
Re, Ohm	5,4
Sd, cm ²	1250
Xmax, mm	12,25***
n, %	1,9

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	14,9

Specifications

Voice coil and Magnetic system

Thiele-Small parameters **

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.