



M1840

LOW FREQUENCY TRANSDUCER FOR BASS REFLEX AND BAND PASS SYSTEM



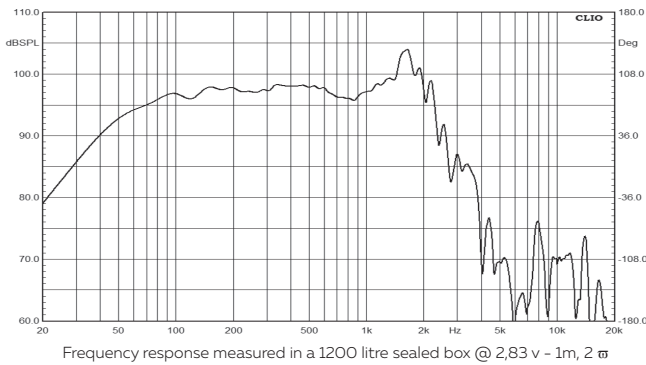
Main features:

- aluminum die-cast frame;
- removable self-centering ferrite magnet system;
- inside-outside copper voice coil;
- ventilated voice coil gap;
- double silicon spider.

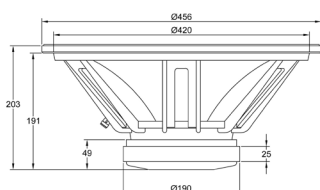
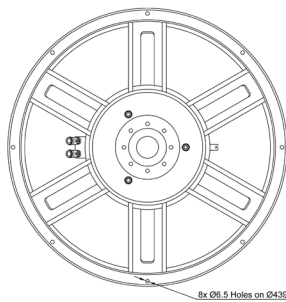
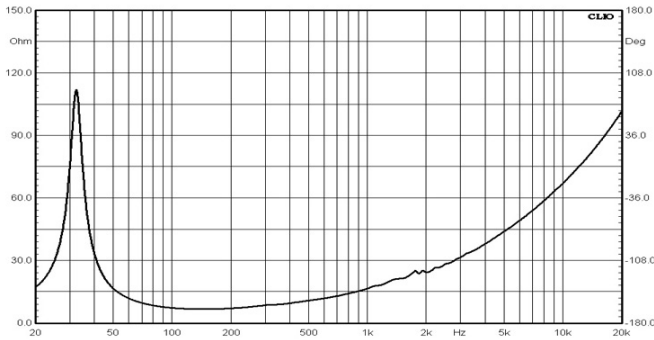
Main specifications:

- 18" nominal diameter;
- 900 W AES program power;
- 97 dB 1W/1m sensitivity;
- 3" copper voice coil;
- 9,3 kg weight.

Frequency response



Free air impedance



Nominal diameter, inches (mm)	18(460)
Nominal impedance, Ohm	4/8
Rated power (AES), W	450*
Frequency range, Hz	40-2000
Sensitivity (1W / 1m), dB	97
Minimum impedance, Ohm	6,9@150Hz
Bl product, Tm	24,3
Voice coil inductance, mH (1kHz)	2,2
Moving mass Mms, g	198

Diameter, inches (mm)	3(76)
Winding material	copper
Former material	glass fiber
Winding depth, mm	18
Magnetic gap depth, mm	10
Flux density, T	1,18

Fs, Hz	32,8
Vas, l	223
Qts	0,38
Qes	0,39
Qms	13,2
Re, Ohm	5,7
Sd, cm²	1164
Xmax, mm	6,5***
n, %	2

Overall diameter, mm	456
Baffle cutout diameter, mm	420
Bolt hole diameter, mm	7
Bolt circle diameter, mm	440
Height, mm	205
Net weight, kg	9,3

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.