18N1600

HIGH POWER LOW DISTORTION EXTENDED LOW FREQUENCY TRANSDUCER FOR BASS REFLEX AND HORN LOADED SYSTEM

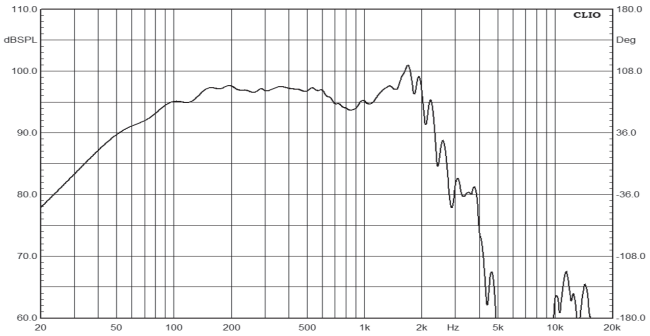
Main features:

· 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:

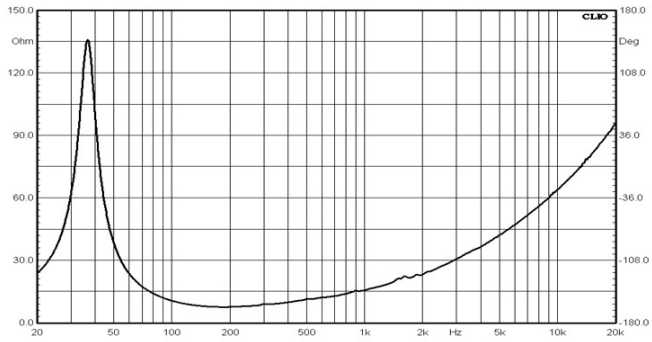
· 18" nominal diameter;
· 3200 W AES program power;
· 98 dB 1W/1m sensitivity;
· 4,5" copper voice coil;
· 10,7 kg weight.

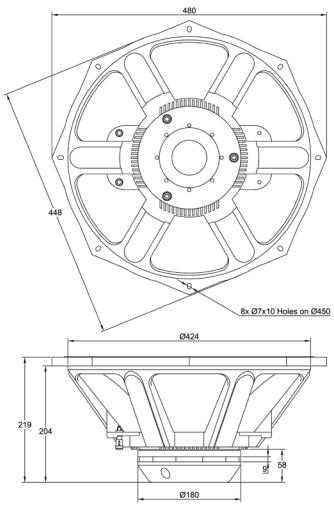
Frequency response



Frequency response measured in a 1200 litre sealed box @ 2,83 v - 1m, 2 ϖ

Free air impendance





* Rated power is determinited 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.

Specifications

Nominal diameter, inches (mm)	18(460)
Nominal impedance, Ohm	8
Rated power (AES), W	1600*
Frequency range, Hz	35-1000
Sensitivity (1W / 1m), dB	98
Minimum impedance, Ohm	7,3@140Hz
Bl product, Tm	36,5
Voice coil inductance, mH (1kHz)	1,63
Moving mass Mms, g	270

Voice coil and Magnetic system

Diameter, inches (mm)	4,5(115)
Winding material	copper
Former material	glass fiber
Winding depth, mm	30
Magnetic gap depth, mm	14
Flux density, T	1,25

Thiele-Small parameters **

Fs, Hz	35
Vas, l	170
Qts	0,23
Qes	0,24
Qms	5,5
Re, Ohm	5,5
Sd, cm²	1250
Xmax, mm	11,5***
n, %	3

Mounting information

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	10,7

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