



M1585



HIGH OUTPUT LOW DISTORTION MID BASS TRANSDUCER FOR COMPACT 2-WAY SPEAKERS

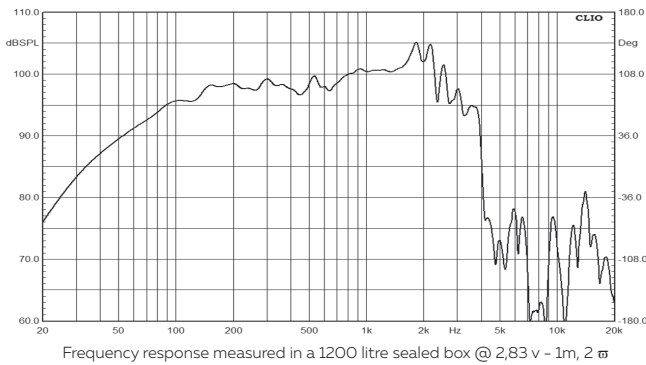
Main features:

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

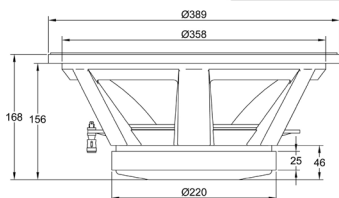
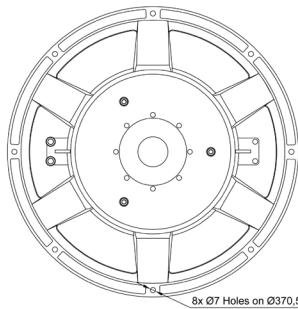
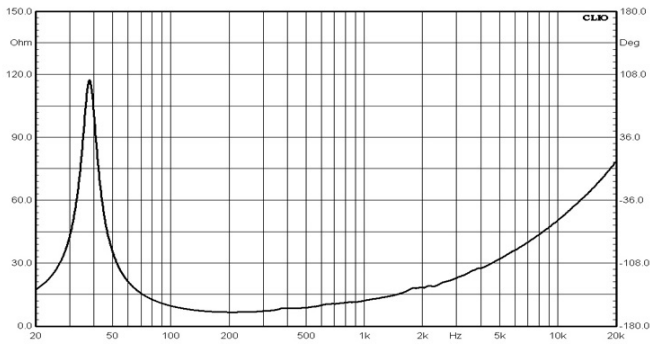
Main specifications:

- 15" nominal diameter;
- 1600 W AES program power;
- 98,5 dB 1W/1m sensitivity;
- 4" CCAW voice coil;
- 9,6 kg weight.

Frequency response



Free air impedance



| | |
|----------------------------------|-----------|
| Nominal diameter, inches (mm) | 15(380) |
| Nominal impedance, Ohm | 8/4 |
| Rated power (AES), W | 800* |
| Frequency range, Hz | 45-2500 |
| Sensitivity (1W / 1m), dB | 98,5 |
| Minimum impedance, Ohm | 6,7@170Hz |
| Bl product, Tm | 23,5 |
| Voice coil inductance, mH (1kHz) | 1,2 |
| Moving mass Mms, g | 125 |

| | |
|------------------------|-------------|
| Diameter, inches (mm) | 4(100) |
| Winding material | CCA W |
| Former material | glass fiber |
| Winding depth, mm | 22 |
| Magnetic gap depth, mm | 9 |
| Flux density, T | 1,25 |

| | |
|----------|---------|
| Fs, Hz | 37,5 |
| Vas, l | 162 |
| Qts | 0,28 |
| Qes | 0,29 |
| Qms | 8,1 |
| Re, Ohm | 5,4 |
| Sd, cm² | 900 |
| Xmax, mm | 8,75*** |
| n, % | 2,9 |

| | |
|----------------------------|-------|
| Overall diameter, mm | 389 |
| Baffle cutout diameter, mm | 358 |
| Bolt hole diameter, mm | 7 |
| Bolt circle diameter, mm | 370,5 |
| Height, mm | 170 |
| Net weight, kg | 9,6 |

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.