



CX12-2

COAXIAL TRANSDUCER FOR COMPACT ENCLOSURES AND STAGE MONITORS



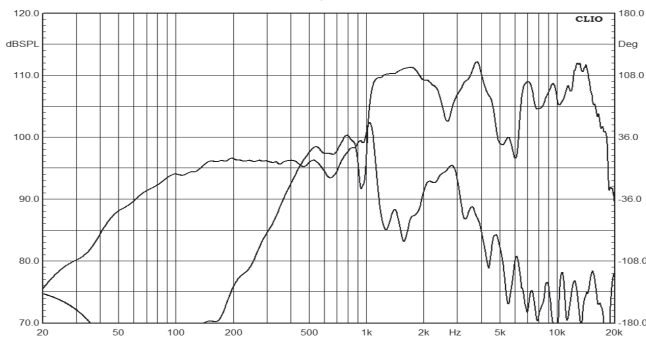
Main specifications:

- combination of a 12" bass loudspeaker and a 2,8" diaphragm compression driver;
- aluminum die-cast frame;
- removable self-centering common ferrite magnet system;
- aluminum demodulation ring;
- titanium diaphragm compression driver.

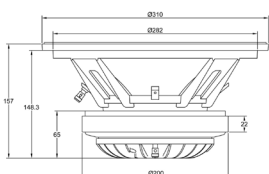
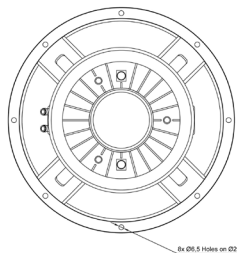
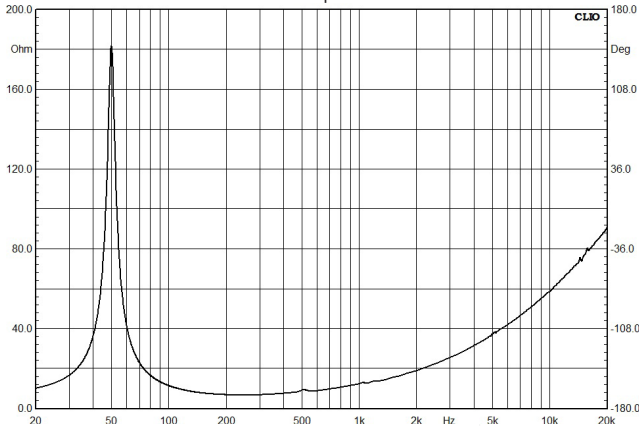
Main features:

- 12" nominal diameter;
- 700W AES program power (LF unit);
- 160W AES program power (HF unit);
- 97dB 1W/1m sensitivity (LF unit);
- 106dB 1W/1m sensitivity (LF unit);
- 3" edgewound copper ribbon voice coil (LF unit);
- 2.8" edgewound aluminum ribbon voice coil (HF unit);
- 60x40 degrees dispersion;
- 6.8 kg weight.

Frequency response



Free air impedance



Nominal diameter, inches (mm)	12(300)
Nominal impedance, Ohm	8
Rated power (AES), W	350*
Frequency range, Hz	60-18000
Recomended crossover Hz	1100
Sensitivity (1W / 1m), dB	97
Minimum impedance, Ohm	7@240Hz
Bl product, Tm	18,4
Voice coil inductance, mH (1kHz)	1,24
Moving mass Mms, g	71

Diameter, inches (mm)	3(76)
Winding material	copper
Former material	glass fiber
Winding depth, mm	12,7
Magnetic gap depth, mm	8
Flux density, T	0,96

Fs, Hz	50
Vas, l	56
Qts	0,38
Qes	0,39
Qms	11,6
Re, Ohm	6
Sd, cm ²	531
Xmax, mm	4,35***
n, %	1,7

Nominal impedance, Ohm	8
Rated power (AES), W	80
Sensitivity (1W / 1m), dB	106
Diameter, inches (mm)	2,8(72)
Winding material	aluminum
Diaphragm material	titanium
Flux density, T	1,66

Overall diameter, mm	312
Baffle cutout diameter, mm	282
Bolt hole diameter, mm	7
Bolt circle diameter, mm	294
Height, mm	163
Net weight, kg	6,8

Specifications and LF unit

Voice coil and Magnetic system

Thiele-Small parameters**

HF unit and Voice Coil

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.