



# 10N500

## HIGH OUTPUT LOW FREQUENCY TRANSDUCER FOR LINE ARRAY MODULES, HORN AND COMPACT BASS-REFLEX ENCLOSURE



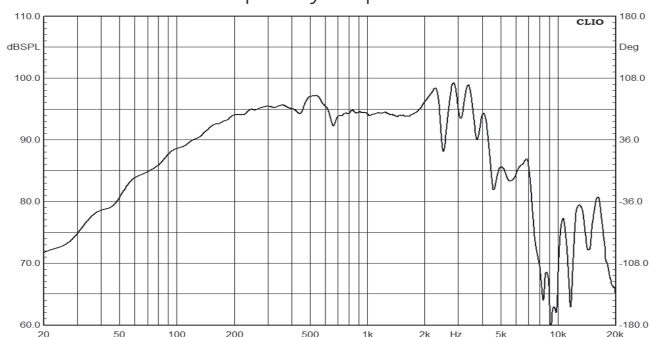
### Main features:

- aluminum die-cast octagonal frame with small installation dimensions;
- removable self-centering neodymium magnet system;
- inside-outside copper voice coil;
  - ventilated voice coil gap;
  - aluminum demodulation ring.

### Main specifications:

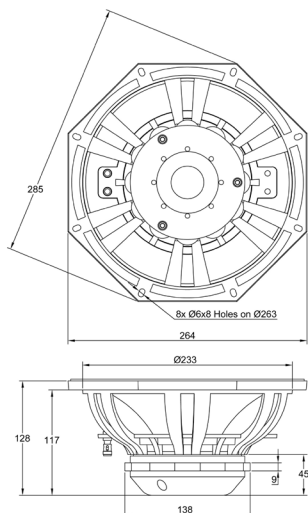
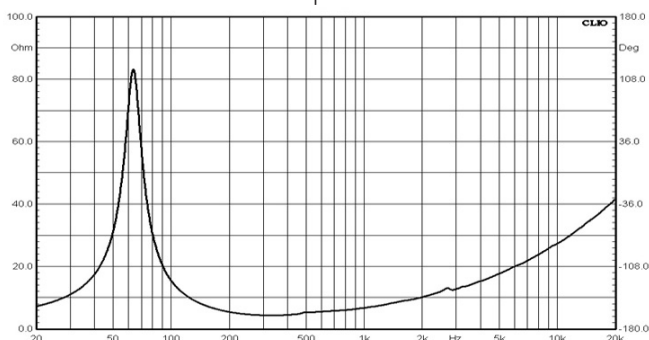
- 10" nominal diameter;
- 1000 W AES program power;
- 96 dB 1W/1m sensitivity;
- 3" copper voice coil;
- 3,9 kg weight.

Frequency response



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

Free air impedance



Nominal diameter, inches (mm)	10(250)
Nominal impedance, Ohm	8/16
Rated power (AES), W	500*
Frequency range, Hz	60-2200
Sensitivity (1W / 1m), dB	96
Minimum impedance, Ohm	4,3@300Hz
Bl product, Tm	21,6
Voice coil inductance, mH (1kHz)	0,6
Moving mass Mms, g	48,8

Diameter, inches (mm)	3(76)
Winding material	cooper
Former material	glass fiber
Winding depth, mm	19
Magnetic gap depth, mm	10
Flux density, T	1,35

Fs, Hz	63
Vas, l	21,5
Qts	0,22
Qes	0,23
Qms	5,7
Re, Ohm	3,2
Sd, cm <sup>2</sup>	346
Xmax, mm	7***
n, %	2,3

Overall diameter, mm	264/285
Baffle cutout diameter, mm	233
Bolt hole diameter, mm	6x8
Bolt circle diameter, mm	263
Height, mm	130
Net weight, kg	3,9

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.