# 10N501

## HIGH OUTPUT LOW DISTORTION MID BASS TRANSDUCER FOR LINE ARRAY MODULES AND COMPACT 2-WAY SPEAKERS

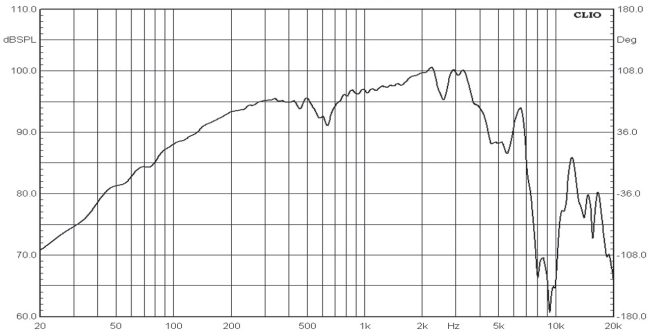
**Main features:**

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

**Main specifications:**

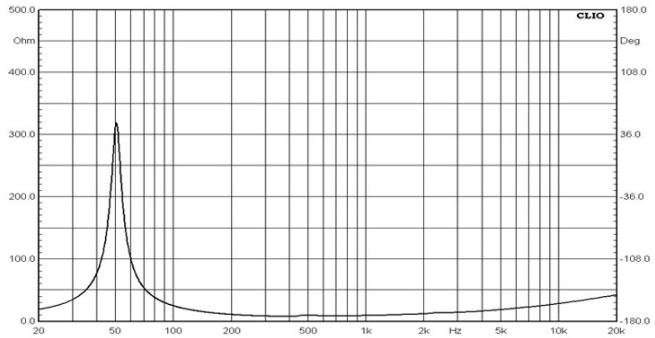
· 10" nominal diameter;
· 1000 W AES program power;
· 97 dB 1W/1m sensitivity;
· 3" CCAW voice coil;
· 3,8 kg weight.

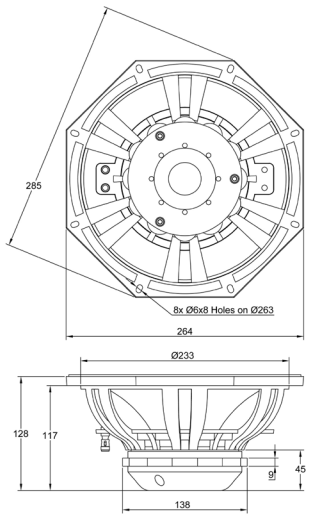
Frequency response




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) | 10(250) |
| Nominal impedance, Ohm | 8 |
| Rated power (AES), W | 500* |
| Frequency range, Hz | 60-3500 |
| Sensitivity (1W / 1m), dB | 97 |
| Minimum impedance, Ohm | 7,5@390Hz |
| Bl product, Tm | 20,2 |
| Voice coil inductance, mH (1kHz) | 0,4 |
| Moving mass Mms, g | 37 |

Voice coil and Magnetic system

| | |
|---|---|
| Diameter, inches (mm) | 3(76) |
| Winding material | CCAW |
| Former material | glass fiber |
| Winding depth, mm | 1,47 |
| Magnetic gap depth, mm | 8 |
| Flux density, T | 18,7 |

Thiele-Small parameters **

| | |
|---|---|
| Fs, Hz | 50,5 |
| Vas, l | 45,6 |
| Qts | 0,167 |
| Qes | 0,17 |
| Qms | 8,7 |
| Re, Ohm | 5,9 |
| Sd, cm² | 346 |
| Xmax, mm | 7,35*** |
| n, % | 3,3 |

Mounting information

| | |
|---|---|
| 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 | 3,8 |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