



# 15N500

## LOW DISTORTION LOW FREQUENCY TRANSDUCER FOR BASS REFLEX AND BAND PASS SYSTEM



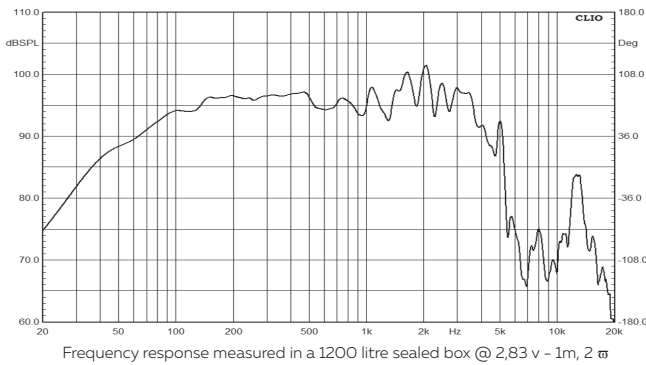
### Main features:

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

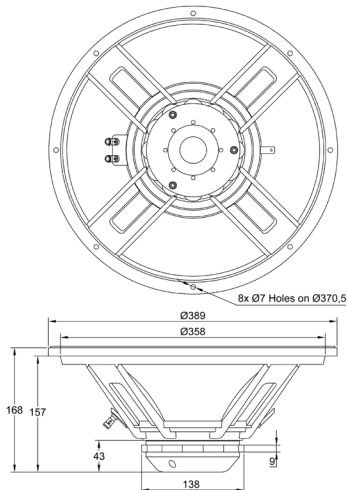
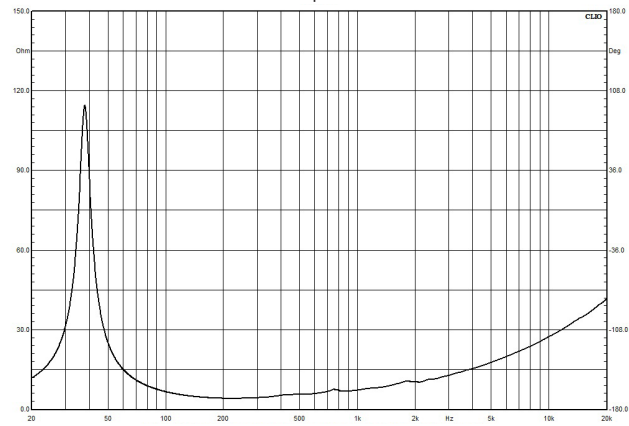
### Main specifications:

- 15" nominal diameter;
- 1000 W AES program power;
- 97 dB 1W/1m sensitivity;
- 3" CCAW voice coil;
- 4,5 kg weight.

Frequency response



Free air impedance



Nominal diameter, inches (mm)	15(380)
Nominal impedance, Ohm	4
Rated power (AES), W	500*
Frequency range, Hz	40-2000
Sensitivity (1W / 1m), dB	97
Minimum impedance, Ohm	3,1@170Hz
Bl product, Tm	17,9
Voice coil inductance, mH (1kHz)	0,53
Moving mass Mms, g	114

Diameter, inches (mm)	3(76)
Winding material	CCA W
Former material	glass fiber
Winding depth, mm	20,5
Magnetic gap depth, mm	8
Flux density, T	1,4

Fs, Hz	39,2
Vas, l	152
Qts	0,28
Qes	0,29
Qms	7,1
Re, Ohm	3,3
Sd, cm <sup>2</sup>	871
Xmax, mm	8,25***
n, %	3

Overall diameter, mm	389
Baffle cutout diameter, mm	356
Bolt hole diameter, mm	7
Bolt circle diameter, mm	370,5
Height, mm	168
Net weight, kg	4,5

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:  $(H_{vc} - H_g) / 2 + H_g / 4$  where  $H_{vc}$  is the voice coil winding depth and  $H_g$  is the gap depth.