NDI6.50W

6,5'' NEO Woofer

Program Power	450 W
Rated impedance	8 Ohm
Nominal diameter	6,5''- 165 mm
Sensitivity (2,83V/1m)	93,5 dB
Voice coil diameter	2 in - 50 mm
Frequency Range	80-4500 Hz

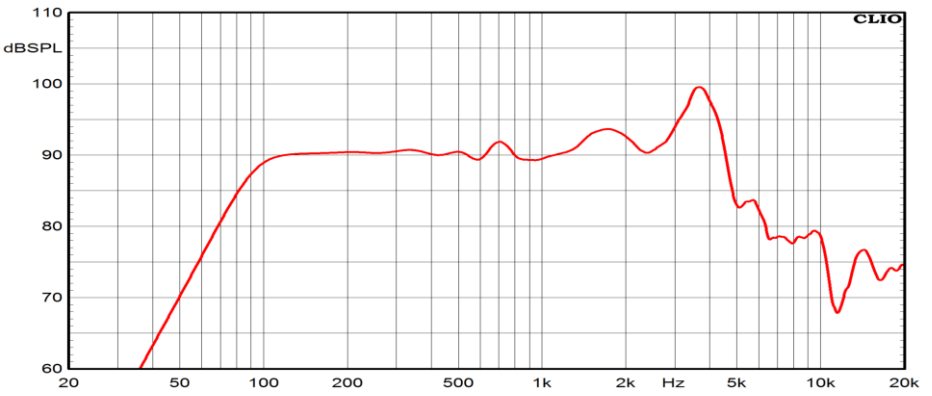
SPECIFICATIONS

Nominal Diameter	6,5''- 165 mm
Rated Impedance	8 Ohm
Nominal Power Handling [1]	220 W
Program Power [2]	450 W
Sensitivity [3]	93,5 dB
Frequency Range [4]	80-4500 Hz
Minimum Impedance	-
Gasket Material	Aluminum
Magnet Material	Neodymium
Cone Material	Doped cellulose fiber
Cone Shape	Exponential
Surround	Nomex Fabric
Suspension	Nomex Fabric
Voice Coil Diameter	2 in - 50 mm
Voice Coil Winding Material	Aluminum
Voice Coil Length	14,5 mm - 0,57 in
Voice Coil Former Material	Kapton
Connection type	-
Ferrofluid	No
Magnetic Gap Height	8 mm - 0,31 in
Max. Peak to Peak Excursion Xvar	-
Efficiency Bandwidth Product EBP	222
Recommended Loading	Vented Box
Volume / Tuning frequency	4 Lt (dm³) - 0,141 cuft / 90 Hz
Maximum recommended frequency	-
Version - Part Code **8 Ohm**	**PNDI6.50W**
4 Ohm	CMI160

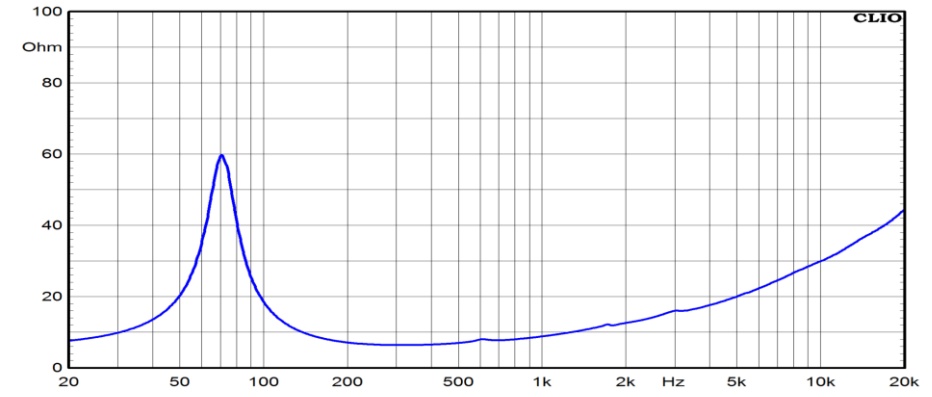
T/S PARAMETERS — 8 Ohm

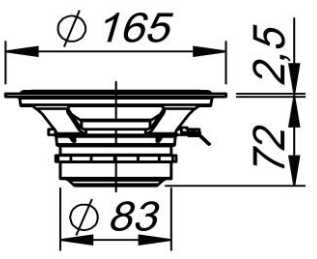
Resonance frequency	Fs	71 Hz
DC Resistance	Re	5,5 Ohm
Mechanical Q Factor	Qms	3,3
Electrical Q Factor	Qes	0,32
Total Q Factor	Qts	0,29
Bl Factor	Bl	10,8 Tm
Effective Moving Mass	Mms	15,4 g
Equivalent Cas air loaded	Vas	8,5 lt (dm³) - 0,3 cuft
Suspension Compliance	Cms	-
Effective Piston Diameter	D	132 mm - 5,2 in
Effective piston area	Sd	137 cm² - 21,24 sq in
Max. Linear Excursion [5]	Xmax	5,5 mm - 0,22 in
Voice Coil Inductance @ 1kHz	Le	0,6 mH
Half-space Efficency	η0	0,95 %

FREQUENCY RESPONSE CURVE [6]



FREE AIR IMPEDANCE CURVE [7]





MOUNTING AND SHIPPING INFORMATION

Overall Diameter	165 mm - 6,5 in
Baffle Cutout Diameter	145 mm - 5,71 in
Flange and Gasket Thickness	2,5 mm - 0,1 in
Total Depth	74,5 mm - 2,93 in
Bolt Circle Diameter	154,5 mm - 6,08 in
Bolt Holes Quantity and Diameter	4 / 5 mm - 0,2 in
Net Weight	1,3 Kg - 2,86 lb
Shipping Units	6 Pcs

NOTES

[1] Nominal power is determined according to AES2-1984 (r2003) standard.
[2] Program Power is defined as 3 dB greater than the Nominal rating.
[3] Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m, when connected to 2,83V sine wave test signal.
[4] Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
[5] Linear Math. Xmax is calculated as (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is the gapdepth.
[6] Frequency response curve In the range above 150 Hz is measured on infinite baffle conditions and simulated as per recommended loading in the range below 150 Hz.
[7] Impedance curve is measured in free air conditions at small signals.