



6,5" NEO Midrange

Program Power 300 W Rated impedance 8 Ohm

6,5"- 165 mm Nominal diameter

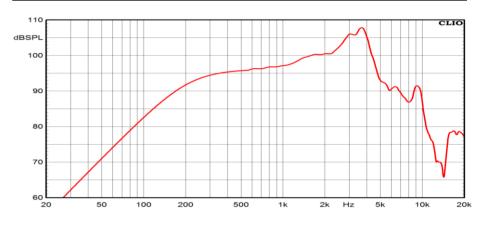
Sensitivity (2,83V/1m) 97 dB

Voice coil diameter 1,5 in - 38 mm Frequency Range 150-4500 Hz

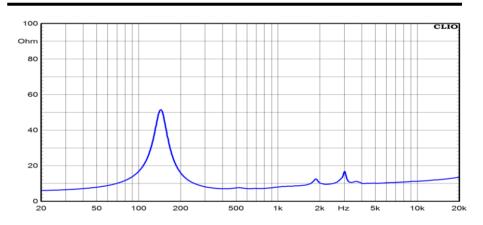
SPECIFICATIONS

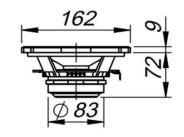
Nominal Diameter 6,5"- 165 mm Rated Impedance 8 Ohm Nominal Power Handling 1 150 W Program Power 2 300 W Sensitivity 3 97 dB Frequency Range 4 150-4500 Hz Minimum Impedance - Basket Material Aluminum Magnet Material Neodymium Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferroffluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency - Version - Part Code 8 Ohm PNDI6.38MR			
Nominal Power Handling ¹ Program Power ² 300 W Sensitivity ³ 97 dB Frequency Range ⁴ 150-4500 Hz Minimum Impedance Basket Material Magnet Material Cone Material Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter Voice Coil Winding Material Copper Voice Coil Former Material Kapton Connection type Ferrofluid Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Maximum recommended frequency - 150 W 150 W	Nominal Diameter		6,5''- 165 mm
Program Power 2 Sensitivity 3 97 dB Frequency Range 4 150-4500 Hz Minimum Impedance Basket Material Magnet Material Cone Material Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter Voice Coil Winding Material Copper Voice Coil Length Voice Coil Former Material Kapton Connection type Ferrofluid Nax. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Maximum recommended frequency Passes 150-4500 Hz Pot Aluminum Noedymium Copped cellulose fiber Exponential Neodymium Copped cellulose fiber Coped Collulose fiber Copped Senderial Nomex Fabric Cotton fabric Copper Voice Coil Former Material Copper Voice Coil Former Material Kapton Connection type - Ferrofluid No Sealed box Volume / Tuning frequency - Sealed box Volume / Tuning frequency - Commended frequency -	Rated Impedance		8 Ohm
Sensitivity ³ Frequency Range ⁴ I150-4500 Hz Minimum Impedance Basket Material Magnet Material Cone Material Cone Shape Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter Voice Coil Winding Material Conper Voice Coil Former Material Kapton Connection type Ferrofluid Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Maximum recommended frequency Maluminum 150-4500 Hz	Nominal Power Handling ¹		150 W
Frequency Range 4 Minimum Impedance Basket Material Magnet Material Cone Material Cone Material Doped cellulose fiber Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter Voice Coil Winding Material Copper Voice Coil Length Voice Coil Former Material Kapton Connection type Ferrofluid Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Maximum recommended frequency - Aluminum Aluminum Neodymium Copped cellulose fiber Exponential Copter Exponential Cotton fabric Cotton fabric Cotton fabric Exponential Nommex Fabric Exponential Nomex Fabric Copper - C	Program Power ²		300 W
Minimum Impedance - Basket Material Aluminum Magnet Material Neodymium Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Sensitivity ³		97 dB
Basket Material Aluminum Magnet Material Neodymium Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Frequency Range ⁴		150-4500 Hz
Magnet Material Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Amagnetic Gap Height Connection Connecti	Minimum Impedance		-
Cone Material Doped cellulose fiber Cone Shape Exponential Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency - Maximum recommended frequency -	Basket Material		Aluminum
Cone Shape Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Sealed box Volume / Tuning frequency - Maximum recommended frequency -	Magnet Material		Neodymium
Surround Nomex Fabric Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Cone Material		Doped cellulose fiber
Suspension Cotton fabric Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Cotton fabric 1,5 in - 38 mm Copper 9 mm - 0,35 in Kapton - Expendit Connection - Expendit Connection - Expendit Connection Sealed box Volume / Tuning frequency 2,5 Lt (dm³) - 0,088 cuft Maximum recommended frequency	Cone Shape		Exponential
Voice Coil Diameter 1,5 in - 38 mm Voice Coil Winding Material Copper Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³) - 0,088 cuft Maximum recommended frequency -	Surround		Nomex Fabric
Voice Coil Winding Material Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Maximum recommended frequency - Copper 9 mm - 0,35 in Kapton - - 278 8 em - 0,24 in 9 mm - 0,24 in No Sealed box 278 Recommended Loading Sealed box Volume / Tuning frequency - Maximum recommended frequency -	Suspension		Cotton fabric
Voice Coil Length 9 mm - 0,35 in Voice Coil Former Material Kapton Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³) - 0,088 cuft Maximum recommended frequency -	Voice Coil Diameter		1,5 in - 38 mm
Voice Coil Former Material Connection type Ferrofluid No Magnetic Gap Height Max. Peak to Peak Excursion Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Maximum recommended frequency Kapton - Kapton - Sealed box Volume / Tuning frequency - Kapton Sealed box - 278 Sealed box Volume / Tuning frequency - Assimum recommended frequency -	Voice Coil Winding Material		Copper
Connection type - Ferrofluid No Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³) - 0,088 cuft Maximum recommended frequency -	Voice Coil Length		9 mm - 0,35 in
Ferrofluid Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP Recommended Loading Volume / Tuning frequency Maximum recommended frequency - No Seminary - 0,24 in - Seminary - 0,24 in Seminary - 0,24 in - Maximum - 0,24 in Seminary - 0,24 in - Maximum - 0,24 in -	Voice Coil Former Material		Kapton
Magnetic Gap Height 6 mm - 0,24 in Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Connection type		-
Max. Peak to Peak Excursion - Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³) - 0,088 cuft Maximum recommended frequency -	Ferrofluid		No
Efficiency Bandwidth Product EBP 278 Recommended Loading Sealed box Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Magnetic Gap Height		6 mm - 0,24 in
Recommended Loading Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Max. Peak to Peak Excursion		-
Volume / Tuning frequency 2,5 Lt (dm³)- 0,088 cuft Maximum recommended frequency -	Efficiency Bandwidth Product EBP		278
Maximum recommended frequency -	Recommended Loading		Sealed box
	Volume / Tuning frequency		2,5 Lt (dm³)- 0,088 cuft
Version - Part Code 8 Ohm PNDI6.38MR	Maximum recommended frequency		-
	Version - Part Code	8 Ohm	PNDI6.38MR

FREQUENCY RESPONSE CURVE 6



FREE AIR IMPEDANCE CURVE 7





T/S PARAMETERS 8 Ohm

Resonance frequency	Fs	150 Hz
DC Resistance	Re	4,8 Ohm
Mechanical Q Factor	Qms	3
Electrical Q Factor	Qes	0,54
Total Q Factor	Qts	0,46
Bl Factor	BI	10,5 Tm
Effective Moving Mass	Mms	13,2 g
Equivalent Cas air loaded	Vas	2,5 lt (dm³) - 0,09 cuft
Suspension Compliance	Cms	-
Effective Piston Diameter	D	137 mm - 5,39 in
Effective piston area	Sd	147 cm ² - 22,79 sq in
Max. Linear Excursion ⁵	Xmax	3 mm - 0,12 in
Voice Coil Inductance @ 1kHz	Le	1 mH
Half-space Efficency	ŋ0	1,5 %

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	162 mm - 6,38 in
Baffle Cutout Diameter	145 mm - 5,71 in
Flange and Gasket Thickness	9 mm - 0,35 in
Total Depth	81 mm - 3,19 in
Bolt Circle Diameter	170 mm - 6,69 in
Bolt Holes Quantity and Diameter	4 / 5 mm - 0,2 in
Net Weight	1,35 Kg - 2,97 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.
- 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.
 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.