DRIVER
ND950 2.0

Professional High Frequency Transducer

PART NUMBER **15129040**

The ND950 2.0 is a ultra compact size, high performance, high power handling 4.0-inch diaphragm compression driver with a 2.0 inch exit throat. The high power neodymium magnet guarantee the perfect control of the dome assembly's moving mass. This leads to higher efficiency, better transient response and diminishes high frequency distortion modes. A thin copper ring is precision pressed on to the pole piece in order to modify and lower the inductance characteristics of the magnetic circuit and voice coil providing a controlled extension of the acoustic frequency response. The ND950 2.0 features a .05 mm thick pure titanium in combination with a high strength Mylar suspension. The voice coil assembly is designed using a high strength, high temperature Kapton® voice coil former and edge wound copper clad aluminium wire. The ND950 2.0 features a 4-slot, optimised geometry, phase plug design. Extended computer assisted mathematical modelling and testing has resulted in a geometry that provides a balanced acoustic performance controlling and lowering air distortion and maximizing output.

Features

- 4.0 inch, Kapton former, edge wound aluminium voice coil
- 280 Watt continuous program power handling
- 2.0" throat
- 110 dB Sensitivity
- 500 Hz –20 KHz Frequency range
- Titanium dome, Polymide surround
- 4 slot phase plug
- The minimum size 4" driver available

Applications

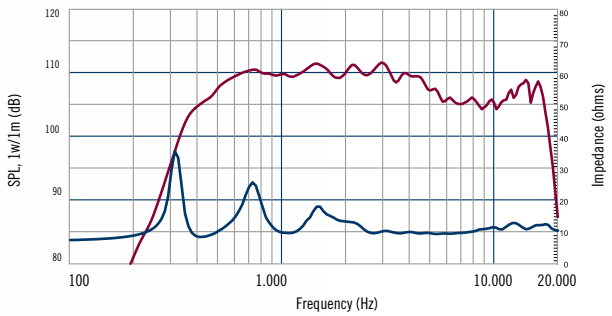
With a wide frequency response range (500 Hz – 20.000 Hz) and 280 Watt power handling, the ND950 2.0 is the ideal driver for heavy duty professional applications.

General Specifications

Exit Throat Diameter	50/2.0	mm/inch
Rated Impedance	8	ohm
Power handling capacity [1]		
continuous program above 1.2 kHz	280	Watt
AES above 1.0 kHz	140	Watt
Sensitivity 1 W, 1 M, on axis, on horn [2]	110	dB
Frequency Range [3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polymide	
Suspension Design	Flat	
Minimum Impedance	8.5 ohm at 3500 Hz	
Voice Coil Diameter	100/4.0	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Kapton	
Number of layers	1 - Outside	
BL Factor	17.6	T · m
Flux Density	2.05	T
Phase Plug Design	4 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

Overall Diameter	146/5.7	mm/inch
Overall Height	97/3.8	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	101.6/4.0	mm/inch
Net Weight	3.6/7.8	kg/Lbs
Shipping Weight	3.9/8.5	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on 90°Hx40°V horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.