

DRIVER

ND950 2.0

Professional High Frequency Transducer

PART NUMBER **15129040**

- 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, Polyimide 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.

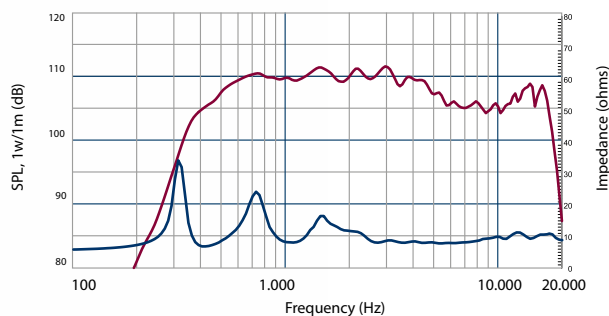
The ND950 2.0 is a ultra compact size, high performance, high power handling 4.0-inch diaphragm compression driver with a 2.0 inch exit throat. The high power neodymium magnet guarantee the perfect control of the dome assembly's moving mass. This leads to higher efficiency, better transient response 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 low distortion Kapton 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.

GENERAL SPECIFICATIONS

| | | |
|---|---------------------|---------|
| Exit Throat Diameter | 50/2.0 | mm/inch |
| Rated Impedance | 8 | ohm |
| Power handling capacity ¹ | | |
| continuous program above 0.8 kHz | 280 | Watt |
| AES above 0.8 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 | Polyimide | |
| 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 | Direct Drive 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 90 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. Continuous 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. Continuous 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. The data are not binding; RCF reserves the right to modify the data at any time and without previous notice.

