

DRIVER ND640

Professional High Frequency Transducer

PART NUMBER **15129051**

Features

- 2.5-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 180 watt Continuous program power handling
- Frequency range: 700Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Direct Drive kapton technology
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System
- Neodymium magnet assembly
- Compact size

Applications

Perfect driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and medium to large format line arrays. Very compact size and easy to crossover, offer the clarity of the 1" and the efficiency and power handling of a large format compression driver. Very good linearity and efficiency in combination with RCF HF series horns.



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.

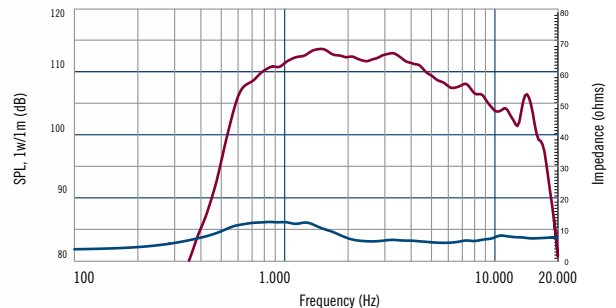
The ND640 is a high performance 2.5-inch diaphragm compression driver with a 1.4 inch exit throat featuring the smallest size of the art technology. The diaphragm are precision completely formed from pure titanium. Voice coil assembly is designed using high temperature kapton former and it is joined to the diaphragm by RCF proprietary Direct Drive kapton technology. Diaphragm suspension is designed by extensive FEM study for low distortion and low frequency range extension.

General Specifications

Exit Throat Diameter	35.5/1.4
Rated Impedance	8
Power handling capacity ¹	
continuous program above 1.2 kHz	180
AES above 1.0 kHz	90
Sensitivity 1 W, 1 M, on axis, on horn ²	110
Frequency Range ³	700 - 20000
Diaphragm Material	Pure Titanium
Suspension Material	Pure Titanium
Suspension Design	Double Roll
Minimum Impedance	7.5 ohm at 2500 Hz
Voice Coil Diameter	63.7/2.5
Voice Coil Material	Edgewound Aluminum
Voice Coil Former Design	Direct Drive Kapton
Number of layers	1 - Outside
BL Factor	9.8
Flux Density	1.9
Phase Plug Design	3 slot
Phase Plug Material	Aluminum
Magnetics	Neodymium
Voice Coil Demodulation	Copper ring

Mounting Information

Overall Diameter	102/4
Overall Height	40/1.6
Mounting	
4 x 6 mm threaded holes at 180 deg.	87/3.4 and 76.2/3
Net Weight	1.1/2.4
Shipping Weight	1.4/3



Frequency response and electrical impedance curve of the compression driver mounted on HF64 horn with input signal of 2.83 Volt.

700

20.000