

DRIVER N850

Professional High Frequency Transducer

PART NUMBER 15120058

Features

- 3-inch Diaphragm, 2.0-inch Exit Throat Titanium Compression Driver
- 180 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Aluminum rear cover and front adaptor
- Copper inductance ring for extended response
- Vented suspension system

Applications

The N850 is a compression driver for professional applications, from high power 2-way systems to multiple-way long throw systems and large format arrays. Very good linearity and efficiency in combination with RCF H6040 horn (60 X 40 degrees dispersion).

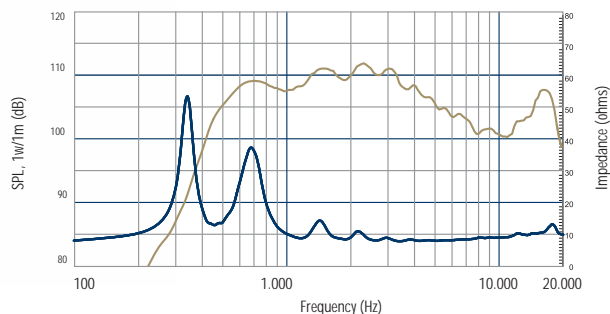
The N850 is a high quality 3.0-inch diaphragm compression driver with a 2 inch exit. The diaphragm is precision formed from .05 mm thick pure titanium. The suspension is based on a Mylar vented design. The front aluminum adaptor guarantee a very smooth transition from the phase plug to the 2" output interface.

General Specifications

| | | |
|---|--------------------|---------|
| Exit Throat Diameter | 50.8/ 2 | mm/inch |
| Rated Impedance | 8 | ohm |
| Power handling capacity ¹ | | |
| continuous program above 1.2 kHz | 180 | Watt |
| AES above 1 kHz | 90 | Watt |
| Sensitivity 1 W, 1 M, on axis, on horn ² | 109 | dB |
| Frequency Range ³ | 500 - 20000 | Hz |
| Diaphragm Material | Pure Titanium | |
| Suspension Material | Mylar | |
| Suspension Design | Radial | |
| Minimum Impedance | 8.8 ohm at 3500 Hz | |
| Voice Coil Diameter | 74.4/3.0 | mm/inch |
| Voice Coil Material | Edgewound aluminum | |
| Voice Coil Former Design | Straight -Kapton | |
| Number of layers | 1 - Outside | |
| BL Factor | 12 | T · m |
| Flux Density | 1.85 | T |
| Phase Plug Design | 3 slot | |
| Phase Plug Material | Composite | |
| Magnetics | Ceramic | |
| Voice Coil Demodulation | Copper ring | |

Mounting Information

| | | |
|------------------------------------|-----------|---------|
| Overall Diameter | 180/1 | mm/inch |
| Overall Height | 95/3.7 | mm/inch |
| Mounting | | |
| 4 x 6 mm threaded holes at 90 deg. | 101.6/4.0 | mm/inch |
| Net Weight | 4.7/10.3 | kg/Lbs |
| Shipping Weight | 5/11.0 | kg/Lbs |



Frequency response and electrical impedance curve of the compression driver mounted on 90°H x 40°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.



500 20.000

20

100

1.000

10.000

20.000