DRIVER
CD850 2.0

Professional High Frequency Transducer

The CD850 2.0 is a high performance 3.0-inch diaphragm compression driver with a 2 inch exit throat featuring several state of the art technologies. The diaphragm are precision formed from pure titanium. The suspension is based on a vented and damped design in order to provide low distorsion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129044**

Features

- 3-inch Diaphragm, 2-inch Exit Throat/ Pure Titanium Compression Driver
- 220 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System
- Ceramic magnet assembly

Applications

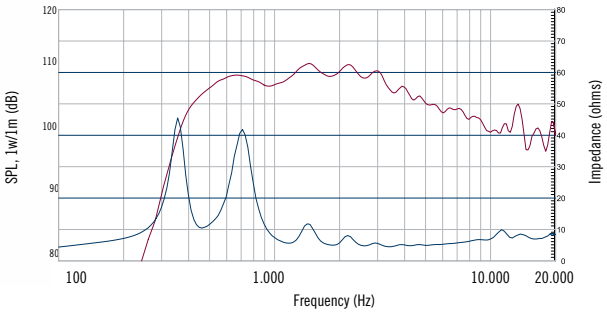
The CD850 2.0 is the ideal driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems. Very good linearity and efficiency in combination with RCF H6040 horn.

General Specifications

Exit Throat Diameter	50/2	mm/inch
Rated Impedance	8	ohm
Power handling capacity [1]		
continuous program above 1.2 kHz	220	Watt
AES above 1.0 kHz	110	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	Polyester	
Suspension Design	Flat	
Minimum Impedance	8.5 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	12.3	T · m
Flux Density	1.9	T
Phase Plug Design	3 slot	
Phase Plug Material	Composit	
Magnetics	Ceramic	
Voice Coil Demodulation	Copper ring	

Mounting Information

Overall Diameter	180/7.1	mm/inch
Overall Height	88/3.5	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	101.6/4.0	mm/inch
Net Weight	5.5/12,1	kg/Lbs
Shipping Weight	6/13,2	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. 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.