

DRIVER

CD850 1.4

Professional High Frequency Transducer

The CD850 1.4 is a high performance 3.0-inch diaphragm compression driver with a 1.4 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 distortion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129045**

- 3-inch Diaphragm, 1.4-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 1.4 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 HF Horn series.



NOTES TO SPECIFICATIONS

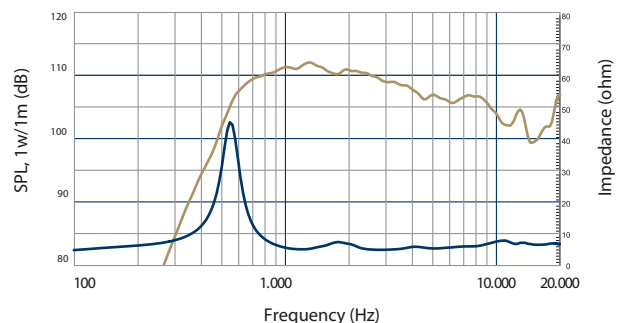
1. Continuous pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuous program power is a conservative power rating for reproduction of typical 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.

GENERAL SPECIFICATIONS

Exit Throat Diameter	35.5/1.4	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	62/2.4	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	5/11	kg/Lbs
Shipping Weight	5.5/12.1	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

