

## DRIVER

# CD650

Professional High Frequency Transducer

PART NUMBER **15129046**

- 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
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System

## APPLICATIONS

Perfect driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems. Very flexible 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 Horns 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.

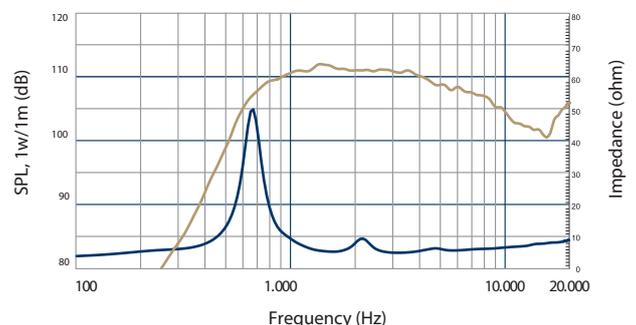
The CD650 is a high performance 2.5-inch diaphragm compression driver with a 1.4 inch exit throat featuring several state of the art technologies. The diaphragm are precision formed from pure titanium. The suspension is based on a vented Polyester design for low distortion. Voice coil assembly is designed using high temperature kapton former.

## GENERAL SPECIFICATIONS

Exit Throat Diameter	35.5/1.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity <sup>1</sup>		
continuous program above 1.2 kHz	180	Watt
AES above 1.0 kHz	90	Watt
Sensitivity 1 W, 1 M, on axis, on horn <sup>2</sup>	109	dB
Frequency Range <sup>3</sup>	700 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	7.5 ohm at 2500 Hz	
Voice Coil Diameter	63.7/2.5	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight Kapton	
Number of layers	1 - Outside	
BL Factor	9.8	T · m
Flux Density	1.9	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Ceramic	
Voice Coil Demodulation	Copper ring	

## MOUNTING INFORMATION

Overall Diameter	165/6.5	mm/inch
Overall Height	56/2.2	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	4.3/9.5	kg/Lbs
Shipping Weight	4.7/10.3	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

