

# 8CXN51

## ND COAXIAL



**500 W**  
continuous program  
power capacity

**100°**  
nominal coverage

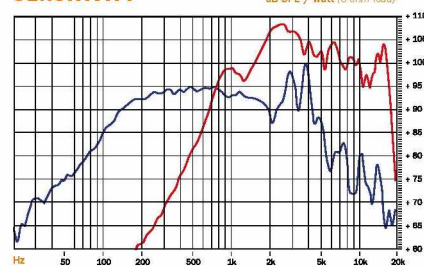
Single Neodymium  
magnet assembly

**97 dB**  
sensitivity

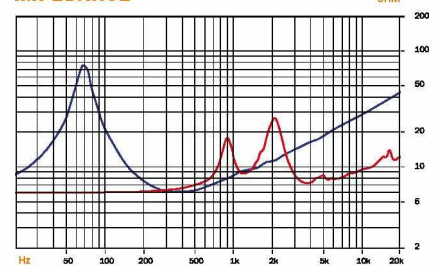
**70 - 18000 Hz**  
response



**SENSITIVITY**



**IMPEDANCE**



**SPECIFICATIONS**

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.4 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle <sup>1</sup>	100°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side
<b>LF UNIT</b>	
Sensitivity (1W/1m) <sup>2</sup>	97 dB
Power Handling Nom. (AES) <sup>3</sup>	250 W
Continuous Program <sup>4</sup>	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminum
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	17.0 mm (0.67 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
<b>HF UNIT</b>	
Sensitivity (1W/1m) <sup>2</sup>	104 dB
Power Handling Nom. (AES) <sup>3</sup>	50 W
Continuous Program <sup>4</sup>	100 W

Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Diaphragm Material	Polyimide
Recommended Crossover <sup>5</sup>	1.8 kHz
Flux Density	1.8 T
Inductance	0.11 mH

**MOUNTING AND SHIPPING INFORMATION**

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	111 mm (4.4 in)
Flange and Gasket Thickness	10 mm (0.4 in)
Net Weight	2.5 kg (5.5 lb)
Shipping Weight	3.1 kg (6.83 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

Also available in 4 and 16 Ω, data upon request

<sup>1</sup> 1 Included by -6 dB down points.  
<sup>2</sup> Applied RMS Voltage is set to 2.83V.  
<sup>3</sup> LF - Two hour test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Loudspeaker in free air.

HF - Two hour test made with continuous pink noise signal (6 dB crest factor) within the range from the recommended crossover frequency to 20 kHz. LF and HF Power calculated on rated minimum impedance.

<sup>4</sup> Power on Continuous Program is defined as 3 dB greater than the Nominal rating.  
<sup>5</sup> 12 dB/oct. or higher slope high-pass filter.

**THIELE & SMALL PARAMETERS**

Fs	68 Hz
Re	4.9 Ω
Qes	0.29
Qms	4.7
Qts	0.27
Vas	17 dm <sup>3</sup> (0.60 ft <sup>3</sup> )
Sd	220 cm <sup>2</sup> (34.1 in <sup>2</sup> )
η <sub>0</sub>	1.8 %
X max	± 6 mm
X var	± 6 mm
Mms	22 g
Bl	12.6 T·m
Le	0.9 mH
EBP	234 Hz
Service kit LF	RCK008HCX51-8
Service kit HF	MMD400-8