

# 6HCX51

## ND COAXIAL



**300 W**  
continuous program  
power capacity

**70°**  
nominal coverage

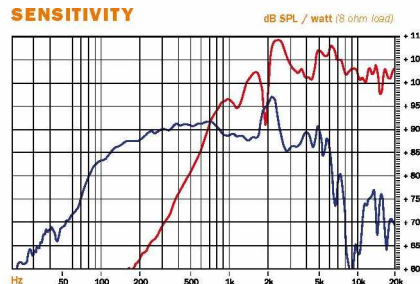
Single Neodymium  
magnet assembly

**92 dB**  
sensitivity

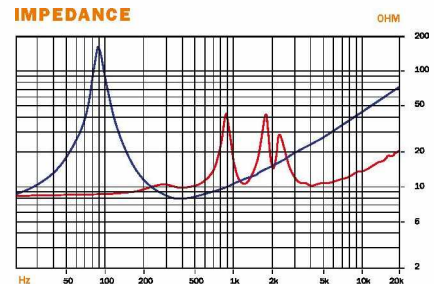
**90 - 18000 Hz**  
response



**SENSITIVITY**



**IMPEDANCE**



**SPECIFICATIONS**

Nom. Diameter	170 mm (6.5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.5 Ω (HF)
Frequency Range	90 - 18000 Hz
Dispersion Angle <sup>1</sup>	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side
<b>LF UNIT</b>	
Sensitivity (1W/1m) <sup>2</sup>	92 dB
Power Handling Nom. (AES) <sup>3</sup>	150 W
Continuous Program <sup>4</sup>	300 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	6.0 mm (0.24 in)
<b>HF UNIT</b>	
Sensitivity (1W/1m) <sup>2</sup>	105 dB
Power Handling Nom. (AES) <sup>3</sup>	25 W
Continuous Program <sup>4</sup>	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover <sup>5</sup>	2.2 kHz
Flux Density	1.8 T
Inductance	0.06 mH

**MOUNTING AND SHIPPING INFORMATION**

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	146 mm (5.7 in)
Depth	104 mm (4.1 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Net Weight	1.55 kg (3.4 lb)
Shipping Weight	2.0 kg (4.41 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)

Also available in 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 hours

**THIELE & SMALL PARAMETERS**

Fs	89 Hz
Re	5.2 Ω
Qes	0.4
Qms	7.5
Qts	0.38
Vas	5 dm <sup>3</sup> (0.18 ft <sup>3</sup> )
Sd	132 cm <sup>2</sup> (20.5 in <sup>2</sup> )
η <sub>0</sub>	0.8 %
X max	± 5 mm
X var	± 5.5 mm
Mms	16 g
Bl	10.9 T·m
Le	0.8 mH
EBP	222 Hz
Service kit LF	RCK06HCX51-8
Service kit HF	MMD012-8

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.