

8FCX51

FE COAXIAL



500 W
continuous program
power capacity

100°
nominal coverage

Single ferrite
magnet assembly

96 dB
sensitivity

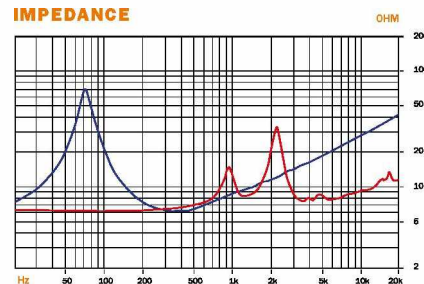
69 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7 Ω (HF)
Frequency Range	69 - 18000 Hz
Dispersion Angle ¹	100°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	96 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Flux Density	1.0 T
Former Material	Glass Fibre
Winding Depth	17.5 mm (0.69 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling ³	50 W
Continuous Program ⁴	100 W

Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Diaphragm Material	Polyimide
Recommended Crossover ⁵	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	118 mm (4.6 in)
Flange and Gasket Thickness	10 mm (0.37 in)
Net Weight	5.1 kg (11.2 lb)
Shipping Weight	5.6 kg (12.3 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

THIELE & SMALL PARAMETERS

Fs	69 Hz
Re	4.9 Ω
Qes	0.36
Qms	6.3
Qts	0.34
Vas	16 dm ³ (0.56 ft ³)
Sd	220 cm ² (34.1 in ²)
η ₀	1.4 %
X max	± 6.5 mm
X var	± 6 mm
Mms	22 g
Bl	11.5 T·m
Le	0.9 mH
EBP	191 Hz
Service kit LF	RCK008FCX44-8
Service kit HF	MMD400-8

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ 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.

⁴ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁵ 12 dB/oct. or higher slope high-pass filter.