

# 12CXN76

## ND COAXIAL



**700 W**  
continuous program  
power capacity

**80°**  
nominal coverage

Single Neodymium  
magnet assembly

**99 dB**  
sensitivity

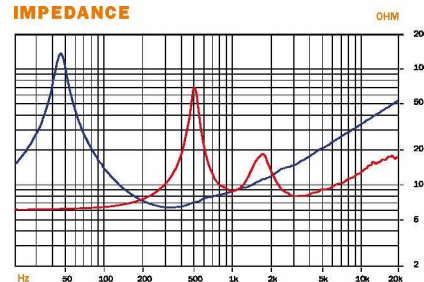
**45 - 18000 Hz**  
response



**SENSITIVITY**



**IMPEDANCE**



**SPECIFICATIONS**

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle <sup>1</sup>	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side
<b>LF UNIT</b>	
Sensitivity (1W/1m) <sup>2</sup>	99 dB
Power Handling Nom. (AES) <sup>3</sup>	350 W
Continuous Program <sup>4</sup>	700 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.2 mm (0.64 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

**HF UNIT**

Sensitivity (1W/1m) <sup>2</sup>	105 dB
Power Handling Nom. (AES) <sup>3</sup>	80 W
Continuous Program <sup>4</sup>	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Polyester/Titanium
Recommended Crossover <sup>5</sup>	1.2 kHz
Flux Density	1.9 T
Inductance	0.14 mH

**MOUNTING AND SHIPPING INFORMATION**

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	170 mm (6.7 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	5 kg (11 lb)
Shipping Weight	6.3 kg (13.89 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Also available in 4 Ω, data upon request  
Also available 15HCX76 (with 60° x 40° horn)

<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

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.

**THIELE & SMALL PARAMETERS**

Fs	42 Hz
Re	5.0 Ω
Qes	0.2
Qms	8.0
Qts	0.19
Vas	120 dm <sup>3</sup> (4.2 ft <sup>3</sup> )
Sd	522 cm <sup>2</sup> (80.9 in <sup>2</sup> )
η <sub>0</sub>	4.1 %
X max	± 4 mm
X var	± 6 mm
Mms	47 g
Bl	17.6 T·m
Le	0.8 mH
EBP	210 Hz
Service kit LF	RCK12CXN76-8
Service kit HF	MMD902-8

<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.