

# 15HCX76

## ND COAXIAL



**800 W**  
continuous program  
power capacity

**60° x 40°**  
nominal coverage

Modified exponential  
horn flare for improved  
acoustic loading and  
controlled coverage

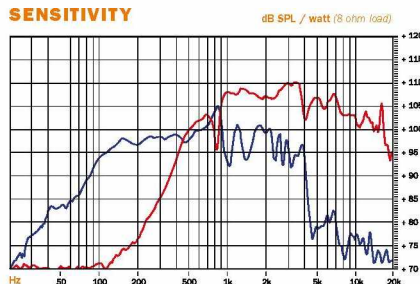
**99 dB**  
sensitivity

**40 - 18000 Hz**  
response

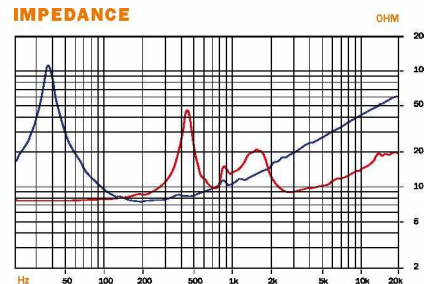
Single Neodymium  
magnet assembly



### SENSITIVITY



### IMPEDANCE



### SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.0 Ω (lf), 8.0 Ω (hf)
Frequency Range	40 - 18000 Hz
Dispersion Angle <sup>1</sup>	60°x40°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

### LF UNIT

Sensitivity (1W/1m) <sup>2</sup>	99 dB
Power Handling Nom. (AES) <sup>3</sup>	400 W
Continuous Program <sup>4</sup>	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

### HF UNIT

Sensitivity (1W/1m) <sup>2</sup>	107 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	Titanium
Recommended Crossover <sup>5</sup>	1.2 kHz
Flux Density	1.9 T
Inductance	0.14 mH

### MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.94 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Net Weight	5.6 kg (12.35 lb)
Shipping Weight	7.2 kg (15.87 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Also available 15CXN76 (without horn / 80° disp)

### THIELE & SMALL PARAMETERS

Fs	38 Hz
Re	5.1 Ω
Qes	0.3
Qms	5.8
Qts	0.28
Vas	246 dm <sup>3</sup> (8.6 ft <sup>3</sup> )
Sd	855 cm <sup>2</sup> (132.5 in <sup>2</sup> )
η <sub>o</sub>	3.7%
X max	± 4.5 mm
X var	± 6 mm
Mms	82 g
Bl	17.8 T·m
Le	0.9 mH
EBP	126 Hz

Service kit LF	RCK15HCX76-8
Service kit HF	MMD3BTN-8

<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.

<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.