



KEY FEATURES:

100 db SPL 1W / 1m (LF) average sensitivity 77 mm (3") high temperature voice coil (LF) 900 W AES program power (LF) Triple aluminium demodulating rings Single magnet assembly Double silicon spider Water protected cone 1.4" exit HF compression driver 72 mm (2.85") HF high temperature voice coil 80 degrees nominal dispersion

Application: Stage monitors and compact bass reflex boxes.

Description: The 15CX is a 15" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80 degrees. The low profile, smooth curvilinear LF cone provides smooth response within its intended frequency range and water prove protective coating, allowing application in a wide range of environments. The state-of-the-art 77 mm (3 in) LF voice coil has Kapton former, which together with high temperature resistant resin ensure high reliability by high power. rings on the magnet structure reduce distortion and inductance and A triple aluminium demodulating improve transient response. 1.4" driver adopted is D3672 model. The exit compression our The HF driver diaphragm assembly, using double layer polyester dome this together with phasing plug improve linearity of frequency response in high end. The HF magnet structure has cooper ring on the pole piece, which reduces the inductance figure of frequencies above 10 kHz, improving phase and impedance linearisation. This ensures extremely high SPL in the high end of the frequency response.





SPECIFICATIONS

Kapton

9 mm.

Ferrite

1.15 T

11.59 Ohms

72 mm (2.85 in)

sandwich polyester

Aluminium

10 Ohms

106 dB

75 W

1.6 T

150 W

18.5 mm

Paper with glassfiber

Die Cast Aluminium

Nominal diameter
Impedance
Minimum impedance LF
Frequency range
Dispersion angle

LF unit

Sensitivity (200-2000 Hz) Power Capacity AES 1 Program Power² Voice Coil Diameter Voice Coil Material Voice Coil Former Voice Coil Winding Depth Magnet Gap Depth Cone Material Basket Magnet Flux Density

HF unit

Minimum impedance HF DC resistance Sensitivity (1000-15000 Hz) Power capacity (1000-20000 Hz) Program power Voice coil diameter Winding material Diaphragm material Flux density

THIELE-SMALL PARAMETERS

388 mm (15 in)	Resonance Frequency	38.2 Hz
LF 8 Ohm /HF 16 Ohm	Mechanical Efficiency Factor (Qms)	5.61
6.20 Ohm	Electrical Efficiency Factor (Qes)	0.372
50 - 16000 Hz	Total Q (Qts)	0.349
80 deg	Equivalent Air Volume (Vas)	163.80 L
	Diaphragm mass ind. airload (Mms)	101.84 g
	Voice Coil Resistance Re	5.18 Ohms
100 dB	Effective Diagram Area (Sd)	829 cm2
450 W	Peak Linear Displacement of Diaphragm (Xmax)*	± 7 mm
900 W	Mechanical Compliance of Suspension (Cms)	0.170 mm/N
77 mm (3 in)	BL Product (BL)	18.45 T.m
Copper	V.C. Inductance at 1 kHz (Le)	0.69 mH

MOUNTING INFORMATION

Overall diameter	388 mm (15 in)
Depth	212 mm
Baffle hole diameter	352 mm
Bolt circle diameter	370/372 mm
Number of mounting holes	8 eliptic 7x8 mm
Net weight	10.90 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 120 L box enclosure tuned 56 Hz using a 40-400 Hz band limited pink noise test signal applied 2 for continuously hours. 2. Program power is defined as 3db greater than AES Power Capacity. * Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.













