



AMK Commercial Series

CX 402

4" Coaxial Loudspeaker



The AMK CX-402 loudspeaker is a full range low distortion, coaxial transducer. Space-age materials and processes are used to produce this speaker.

The unit is ideally suited for an application where small high quality full spectrum speaker is called for boardrooms and executive meeting rooms for example. It's superb off-axis response and a smooth, wide bandwidth is unique in this size.

Features:

- ♦ Injection Molded Polypropylene Woofer Cone
- ♦ 1" Dome Tweeter
- ♦ Rubber Surround

Related Accessories:

Transformers: 70V or 25V Line of Transformers

Recommended Backbox: BC4-4 or BC4-7

Baffle: 4MRG

Tile Bridge: TB4R

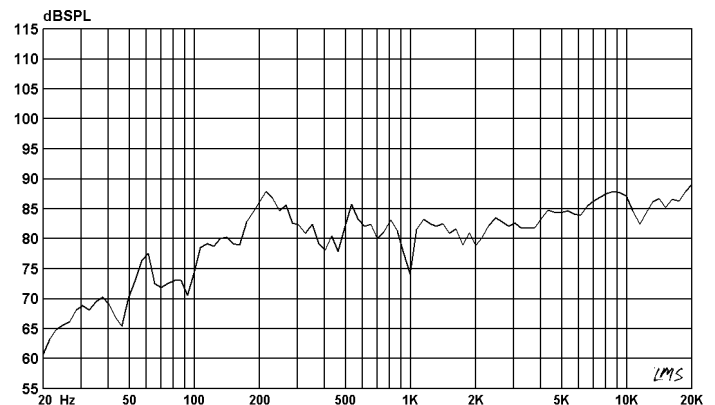
Specifications

Frequency Response	90 Hz - 20 kHz
Power Handling	15 watts
Impedance	4 ohm
Sound Pressure level (1w/1m)	83 dB Averaged
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	140°
Fo	90 Hz
Qts	0.76
Vas	.1 ft ³
Re	3.6 ohm
Xmax	1.1 mm
Magnet Weight	6.7oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Hard Dome
Tweeter Magnet	Neodymium
Woofer Cone	Injection Molded Polypropylene
Surround Material	Rubber
Crossover Frequency	5.5 kHz

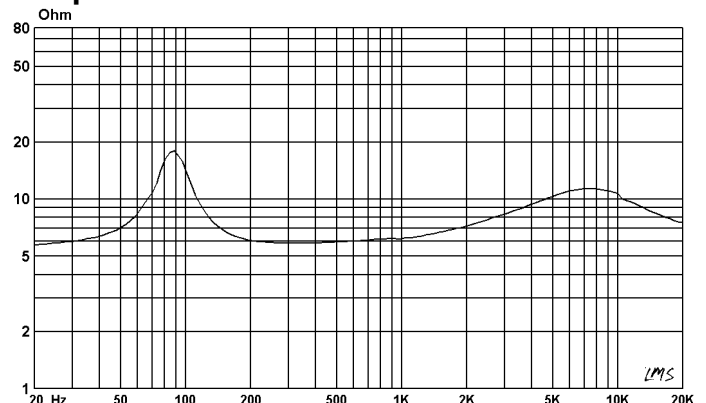
Physical Constants

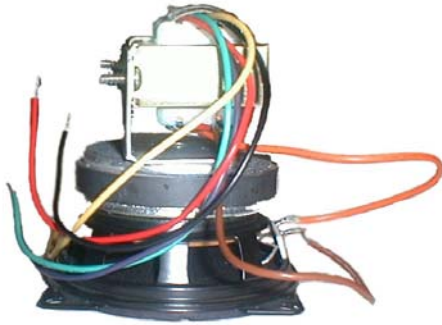
Depth	2.2"
Width	3.95"
Mounting	4 holes equally spaced 4.56"
Voice Coil Material	Copper
Voice Coil Insulation	Polyamide, 220 Degree Rating
Voice Coil Former	Aluminum
Speaker Frame	22ga Stamped Steel
Frame Paint	Black zinc
Net Weight	1.4 lbs
Shipping Weight	1.6 lbs

Frequency Response



Impedance Curve





Architect's and Engineer's Specification

The speaker shall be AMK 4" Coaxial Model CX402 or loudspeaker / transformer combination Model CX402T_____ (utilizing AMK line-matching transformer Model T_____). The low frequency reproducer shall be a full 4" (102mm) in diameter and the high frequency reproducer shall be 1.44" in diameter. The power handling of the combined assembly shall be 15W

The woofer shall have a 6.7 oz (190g) Barium Ferrite magnet. The voice coil diameter of low frequency unit shall be 1" (2.54mm). The high frequency voice coil diameter shall be 0.51" (13mm) and shall be a 1" polyamide soft dome. The woofer cone material of the loudspeaker unit shall be injection molded polypropylene. The surround of the loudspeaker unit shall be rubber roll.

The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.9 kHz. The unit's frequency response range shall be 90 Hz to 20 kHz (+/- 5dB). The unit's sensitivity shall be 83dB at 1 watt / 1 meter. Voice coil impedance shall be 4 ohms.

Transformer primary voltage shall be _____ (25V, 70.7V, 70/25) with a frequency response range of _____ and power taps at _____ watts. Insertion loss shall not exceed _____ dB.

The maximum depth of the loudspeaker shall not exceed 2.2" (55mm). The unit's total weight shall not exceed 1.4 lbs (0.64 kg).

The loudspeaker shall be AMK Innovations model CX402.

**Conforms to EIA Standards:
RS-276-A, RS-278-B, RS-426-A**

Polar Responses

