

AMK Commercial Series

**CX 801**

8" Coaxial Loudspeaker



The AMK CX-801 loudspeaker is a full-range, low distortion, coaxial transducer. Its excellent polar dispersion derived from a high quality broad pattern polyamide tweeter makes it suitable for foreground or background music applications.

Most speakers of this type and price range utilize cone or piezo electric tweeters, types that beam on-axis, which results in off-axis intelligibility being lost.

High efficiency, excellent speech intelligibility, and a smooth high frequency response allow this speaker to be used in a wide range of commercial installations.

**Features:**

- ♦ Woofer Cone: Treated Paper
- ♦ Surround Material: Cloth Roll
- ♦ Tweeter: 1" Dome Tweeter

**Related Accessories:**

Transformers: 70V or 25V Line of Transformers

Recommended Backbox: BC8-7

Baffle: 8MRG, 8PRG, or 8MSG

Tile Bridge: TB8R

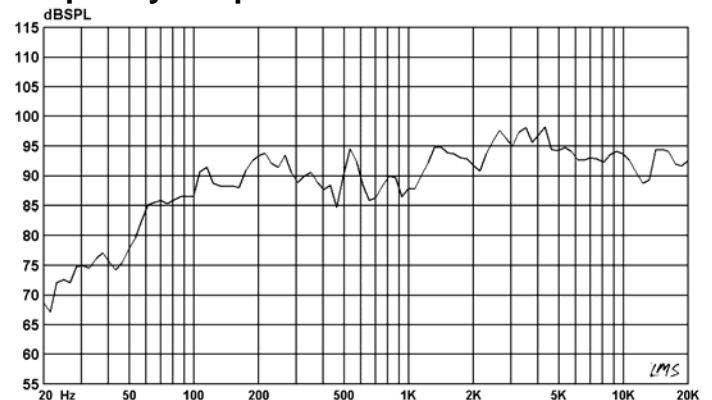
**Specifications**

Frequency Response	85 Hz – 22 kHz
Power Handling	20 watts
Impedance	8 ohms
Sound Pressure level (1w/1m)	90 dB
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	104°
Fo	85 Hz
Qts	0.73
Vas	.11 ft <sup>3</sup>
Re	7 ohm
Xmax	1.65 mm
Magnet Weight	10 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Hard Dome
Tweeter Magnet	Barium Ferrite
Woofer Cone	Treated Paper
Surround Material	Cloth-Roll
Crossover Frequency	5.5 kHz

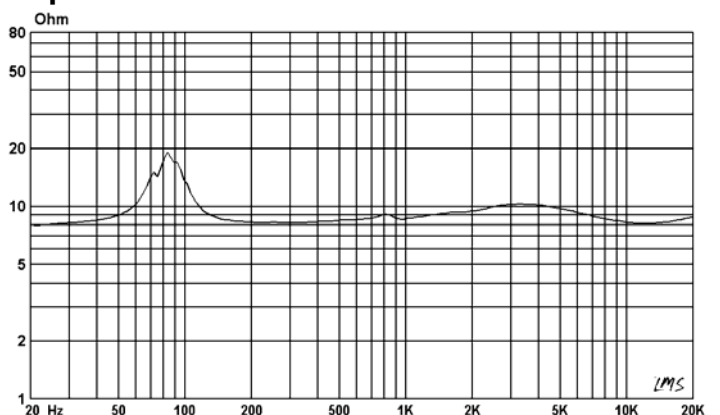
**Physical Constants**

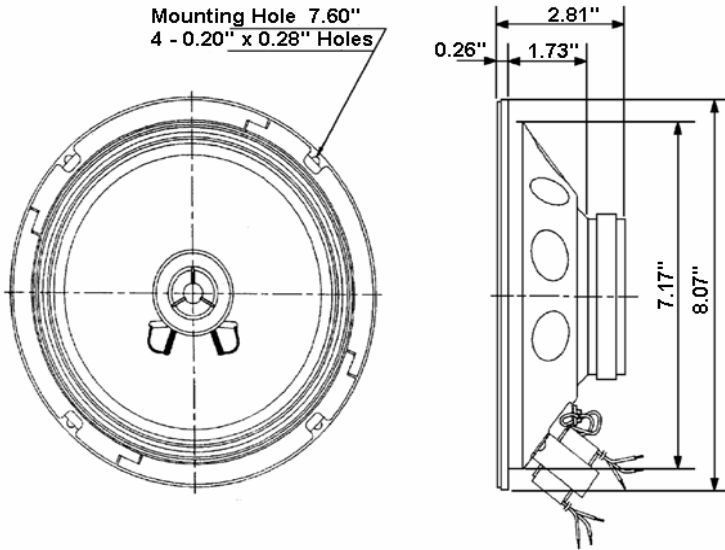
Depth	3"
Width	8 1/8"
Mounting	4 holes equally spaced 7 5/8"
Voice Coil Material	Copper
Voice Coil Insulation	Polyamide, 220 Degree Rating
Voice Coil Former	Aluminum
Speaker Frame	22ga Stamped Steel
Frame Paint	Black Zinc
Net Weight	2.27 lbs
Shipping Weight	2.5 lbs

**Frequency Response**



**Impedance Curve**





### Architect's & Engineer's Specifications

The speaker shall be the AMK 8" Coaxial Model CX801 or loudspeaker / transformer combination Model CX801T\_\_\_\_\_ (utilizing AMK line-matching transformer Model T\_\_\_\_\_). The low frequency portion shall be a full 8" (203mm) in diameter and the high frequency reproducer shall be 1.875" in diameter. The power handling of the combined assembly shall be 20W.

The woofer shall have a 10 oz. (283g) Barium Ferrite magnet. The voice coil diameter of the low frequency unit shall be 1" (25.4mm). 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 treated paper. The surround of the loudspeaker unit shall be pleated cloth.

The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.5 kHz. The unit's frequency response range shall be 85 Hz to 20 kHz (+/- 5dB). The unit's sensitivity shall be 90dB at 1 watt / 1 meter. Voice coil impedance shall be 8 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 3.0" (76mm). The unit's total weight shall not exceed 2.27 lbs (1.03 kg).

The loudspeaker shall be AMK Innovations model CX801.

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

### Polar Responses

