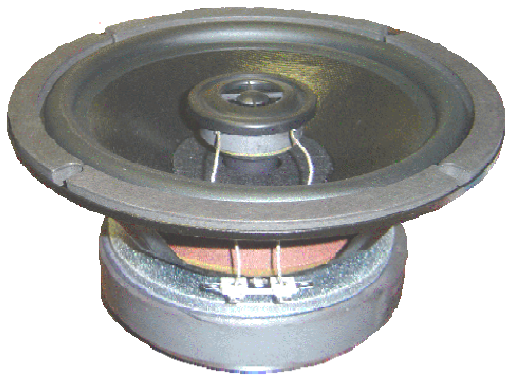


AMK Commercial Series

**CX 807**

8" Coaxial Loudspeaker



The AMK XCX-807 loudspeaker is a full range low distortion, coaxial transducer. This loudspeaker is optimized for high-ceiling applications such as arenas, convention centers, gymnasiums and auditoriums. The high efficiency provides greater SPL often required in these high ceiling applications.

The CX-807 has all polymer cone materials, making the speaker weather resistant. It is recommended and used by consultants and installers for critical indoor as well as outdoor environments

**Features:**

- ♦ Cone Material: Doped High Density Pulp
- ♦ 1" Dome Tweeter

**Related Accessories:**

Transformers: 70V or 25V Line of Transformers

Recommended Backbox: PR2141-8 / PR2141-8SFG / BC8-10

Baffle: 8MRG, 8PRG, or 8MSG

Tile Bridge: TB8R

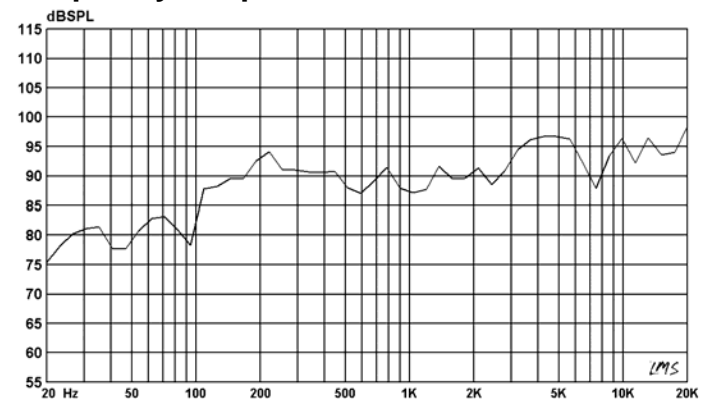
**Specifications**

Frequency Response	110 Hz - 22kHz
Power Handling	100 watts
Impedance	8 ohms
Sound Pressure level (1w/1m)	93 dB
Voice-coil diameter	2.01"
Average Beamwidth @ 2 kHz	134°
Fs	46 Hz
Qts	0.4071
Qms	6.4885
Vas	1.4 ft <sup>3</sup>
Re	7.49 ohm
Magnet Weight	39 oz
Magnet Material	Barium ferrite
Tweeter	13mm polyimide hard dome
Tweeter Magnet	Barium ferrite
Woofer Cone	Doped High Density Pulp
Surround Material	Rubber surround
Crossover Frequency	4.0 kHz

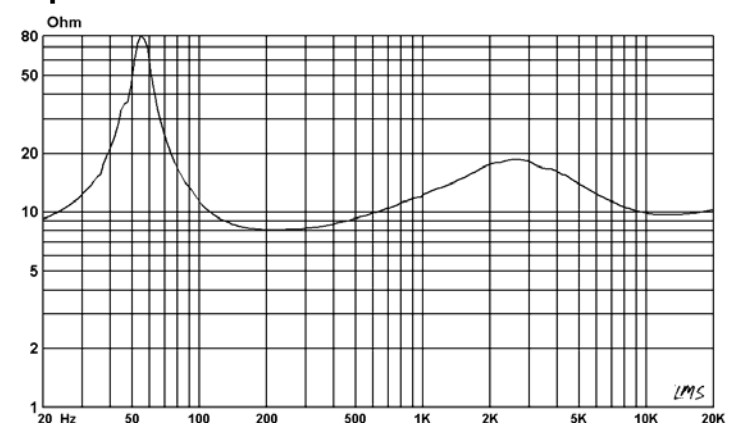
**Physical Constants**

Depth	4 1/4"
Width	8 1/8"
Mounting	4 holes equally spaced 7 5/8"
Voice-coil Material	Copper
Voice-coil Insulation	Polymide, 220 degree rating
Voice-Coil former	Aluminum
Speaker frame	22 ga stamped steel
Frame Paint	Black zinc
Net Weight	8.1 lbs
Shipping Weight	8.6 lbs

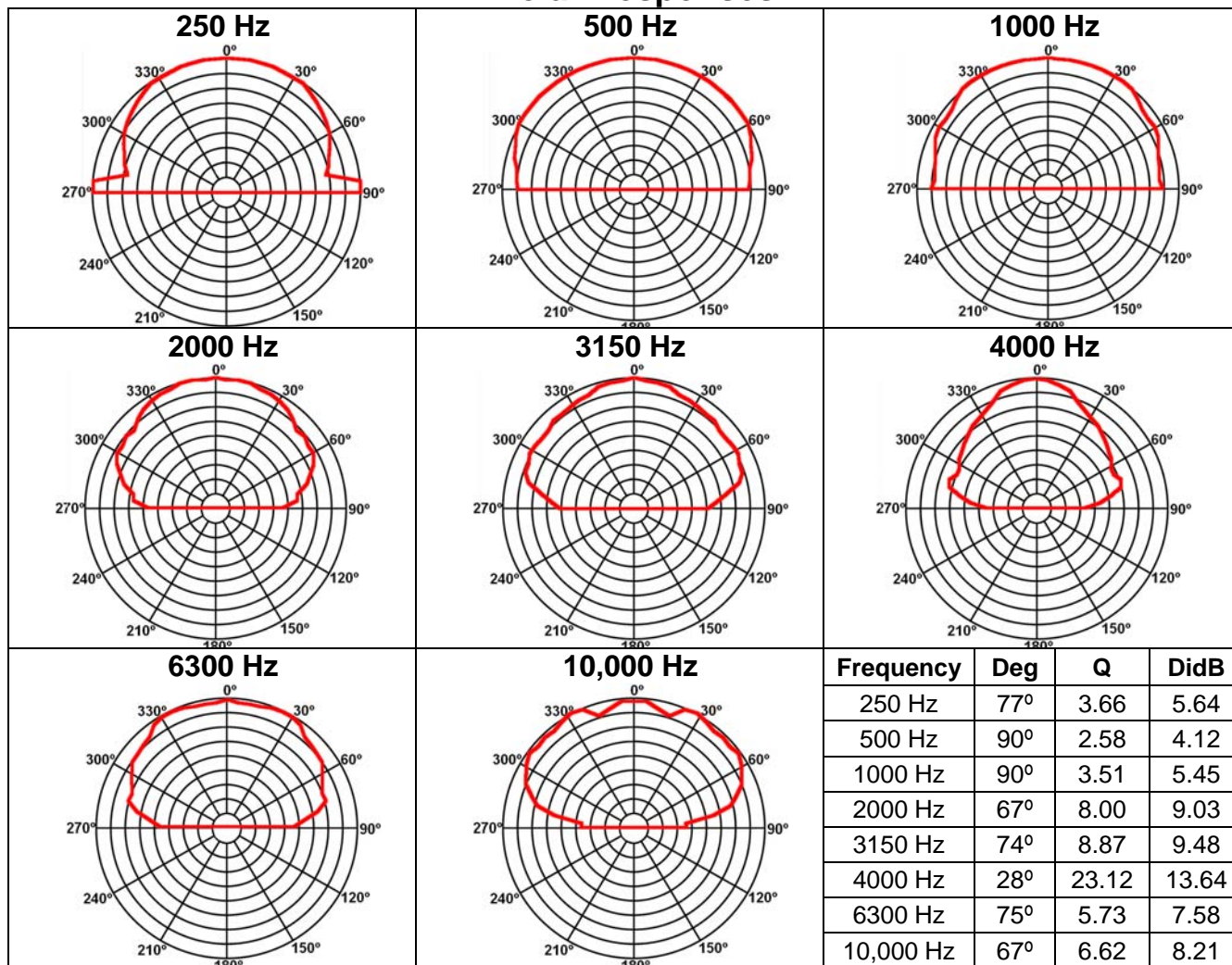
**Frequency Response**



**Impedance Curve**



## Polar Responses



### Architect's & Engineer's Specifications

The speaker shall be the AMK 8" Coaxial Model CX807 or loudspeaker / transformer combination Model CX807T\_\_\_\_\_ (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 2.125" in diameter. The power handling of the unit shall be 100W.

The woofer shall have a 39 oz. (1.1kg) Barium Ferrite magnet. The voice coil diameter of low frequency unit shall be 2.01" (51.1mm). The high frequency voice coil diameter shall be 0.51" (13mm) and shall be 1" polyamide soft dome. The woofer cone material of the loudspeaker unit shall be doped high density pulp. The surround of the loudspeaker unit shall be rubber.

The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 4.0 kHz. The unit's frequency response range shall be 110 Hz to 22 kHz (+/- 5dB). The unit's sensitivity shall be 93dB 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 4 ¼" (83mm). The unit's total weight shall not exceed 8.1 lbs (3.7 kg).

The loudspeaker shall be AMK Innovations model CX807.

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