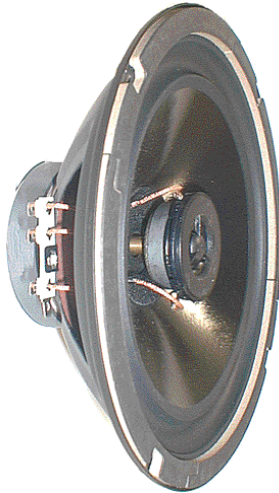




AMK Commercial Series
XCX 803
 8" Coaxial Loudspeaker



The AMK XCX-803 loudspeaker is a full range low distortion, coaxial transducer. This loudspeaker meets the need for a high quality loudspeaker demanded by the new age of commercial broadcast, recorded music, and dynamic film soundtracks. This unit is also well suited for boardrooms and meeting rooms.

The unit has a smooth response and excellent off-axis dispersion, which limits the need for equalization. Fs. of 45 Hz gives the CX-803 high bass output where digital signals are used. A long-throw high-density pulp cone with a high loss dampening clear-coat and inverted rubber surround to reduce distortion and allow beam width to spread beyond 100° off-axis.

AMK welcomes the opportunity for engineers and specifiers to design a tailored crossover for this speaker. Crossover network is set at 4 kHz.

Features:

- ◆ Cone Material: Doped High Density Pulp
- ◆ Inverted Rubber Surround
- ◆ 1" Dome Tweeter
- ◆ Separate woofer and tweeter input terminals for engineers to choose their crossover network (offered as CX 803)

Related Accessories:

Transformers: 70V or 25V Line of Transformers

Recommended Backbox: BC8-7

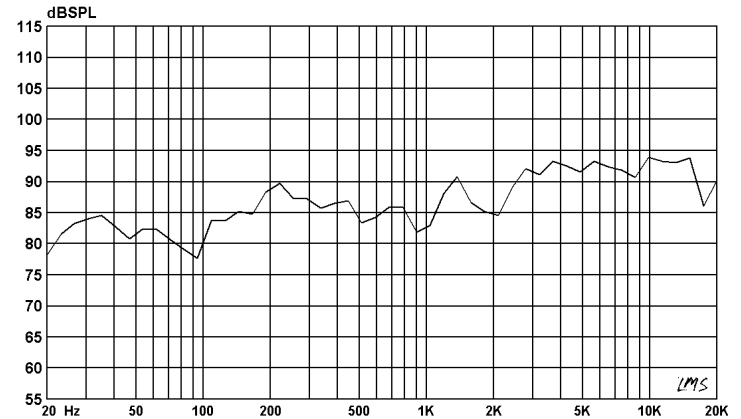
Baffle: 8MRG, 8PRG, or 8MSG

Tile Bridge: TB8R

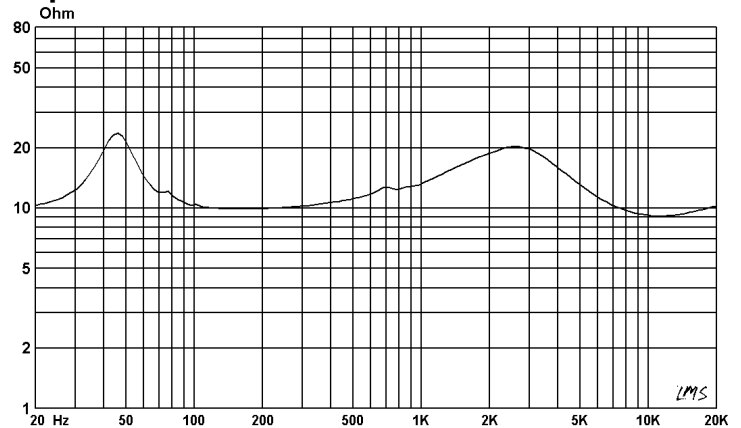
Specifications

Frequency Response	55 Hz - 22kHz
Power Handling	25 watts
Impedance	8 ohms
Sound Pressure level (1w/1m)	87 dB
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	164°
Fo	45 Hz
Qts	0.52
Vas	1.4 ft ³
Re	7.5 ohm
Xmax	2.6mm
Magnet Weight	10 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Hard Dome
Tweeter Magnet	Barium Ferrite
Woofer Cone	Doped High Density Pulp
Surround Material	Inverted Rubber Surround
Crossover Frequency	5.2 kHz

Frequency Response



Impedance Curve

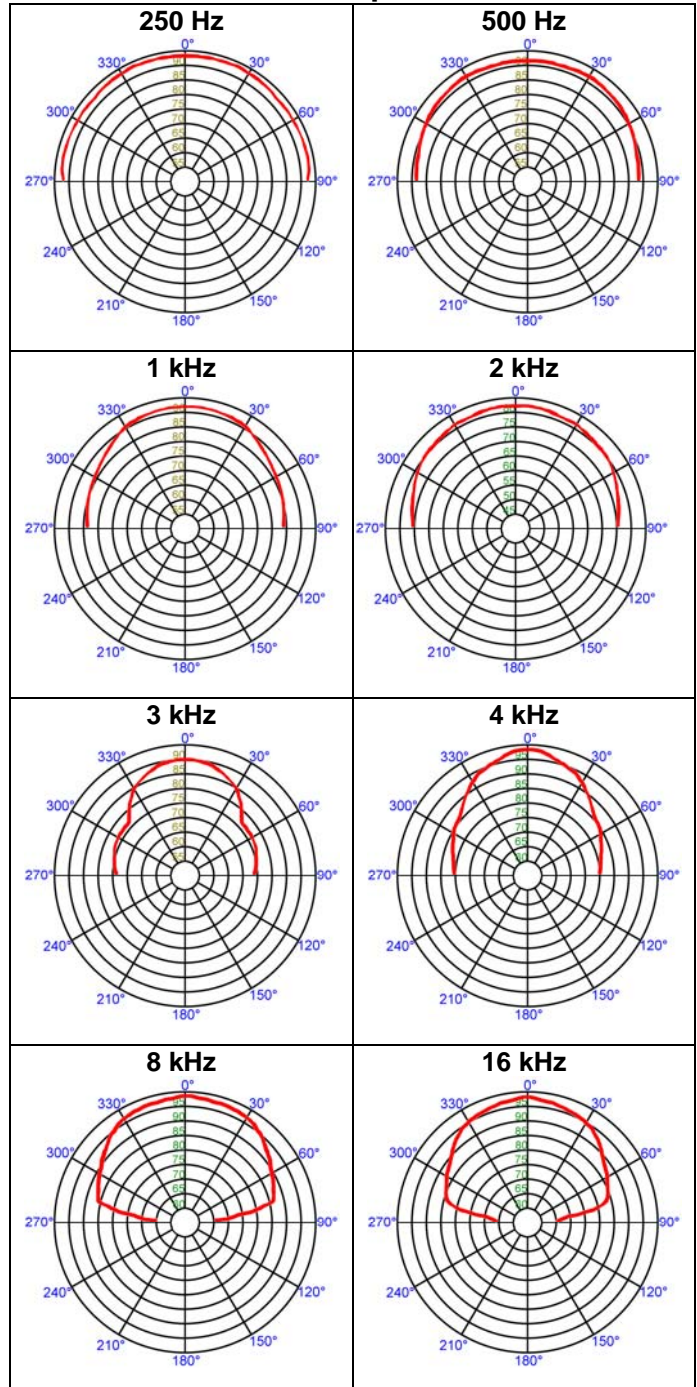


Physical Constants

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	22 ga Stamped Steel
Frame Paint	Black Zinc
Net Weight	2.22 lbs
Shipping Weight	2.80 lbs



Polar Responses



Architect's & Engineer's Specifications

The speaker shall be the AMK 8" Coaxial Model XCX803 or loudspeaker / transformer combination Model XCX803T _____ (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 unit shall be 25W.

The woofer shall have a 10 oz. (284g) Barium Ferrite magnet. The voice coil diameter of 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 doped high density pulp. The surround of the loudspeaker unit shall be an inverted rubber roll.

The two reproducer sections shall be coupled through a modifiable L/C crossover network specially designed by AMK. The crossover frequency shall be at 5.2 kHz. The unit's frequency response range shall be 55 Hz to 20 kHz (+/- 5dB). The unit's sensitivity shall be 87dB 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" (76mm). The unit's total weight shall not exceed 2.25 lbs (1.02 kg).

The loudspeaker shall be AMK Innovations model XCX803.

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

Freq	Deg	Q	DldB
250 Hz	99°	4.4	6.4
500 Hz	97°	5.0	7.0
1 kHz	64°	7.6	8.8
2 kHz	82°	5.4	7.3
3 kHz	34°	13.9	11.4
4 kHz	33°	14.4	11.6
8 kHz	41°	11.6	10.6
16 kHz	30°	16.3	12.1