



AMK Commercial Series

## XCX 1201

12" Coaxial Loudspeaker



AMK XCX1201 compression coaxial loudspeaker is optimized for high-ceiling applications such as arenas, convention centers, gymnasiums and auditoriums. The extreme high efficiency provides greater SPL often required in these high ceiling applications. A large titanium dome compression driver firing through the pole-piece makes this one of the finest 12" co-axial speakers available in the commercial sound industry.

### Features:

- ♦ High Frequency Compression Driver
- ♦ 116° average beam width

### Related Accessories:

Transformers: 70V or 25V Line of Transformers

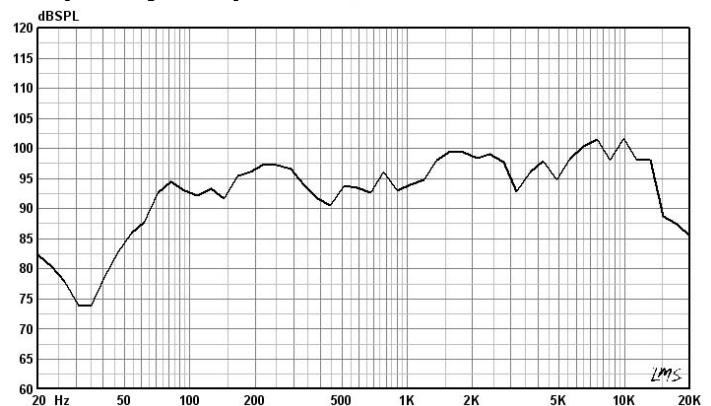
Recommended Backbox: PR2242-12 (2ft<sup>3</sup>)

Grille: 12MSG

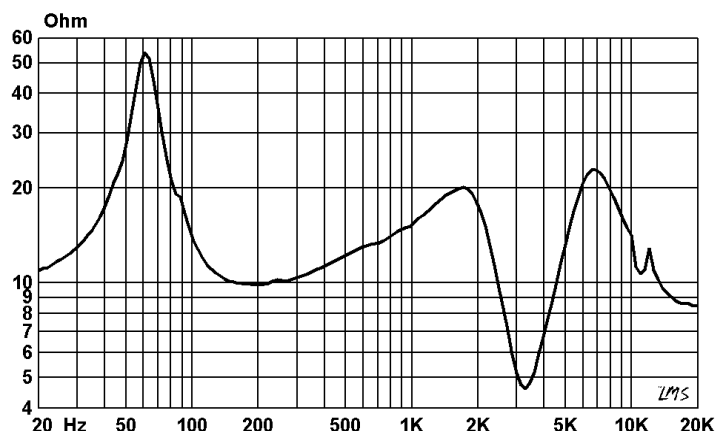
### Specifications

Frequency Response	60 Hz – 16kHz
Power Handling	100 watts
Impedance	8 ohms
Sound Pressure level (1w/1m)	96 dB averaged
Voice-coil diameter	2.0
Average Beam width @ 2 kHz	116°
Fo	60 Hz
Qts	0.6559
Vas	3.88 ft <sup>3</sup>
Vd	51.1 ccm
Efficiency Bandwidth Product	54.1 Hz
Le (woofer)	7.3 mH
BL product	10.03 TM
X max	1.50 mm
Woofer Cone	Paper w/ cloth dual spider surround
Woofer Voice-coil	Copper Wire on Kepton
Woofer Magnet Weight	50 oz
Compression Driver Diaphragm	Pure Titanium
Compression Driver Voice-coil	1.75" Ribbon wire on Kepton
Compression Driver Magnet Weight	17.95 oz
Crossover	1.8 kHz phase and impedance compensated
Net Weight	12.4 lbs

### Frequency Response



### Impedance Curve





### Architect's & Engineer's Specifications

The speaker shall be AMK 12" Coaxial loudspeaker Model XCX1201 or loudspeaker / transformer combination Model XCX1201T\_\_\_\_\_ (utilizing AMK line-matching transformer Model T\_\_\_\_\_). The low frequency reproducer shall be a full 12" (304mm) in diameter with a high frequency compression driver that "shoots" through the LF pole piece. The power handling of the unit shall be 100W.

The woofer shall have a 50 oz. Barium Ferrite magnet and compression driver shall have a 17.95oz Barium Ferrite magnet. The voice coil of the woofer shall be of copper ribbon wire on a Kepton former with a treated paper cone suspended with a pleated cloth surround. The high frequency compression driver unit shall be of ribbon wire on Kepton former with a 1.75" (44.5mm) pure titanium diaphragm.

The two reproducer sections shall be coupled through a special phase and impedance compensated L/C/R crossover network specially designed by AMK. The crossover frequency shall be at 1.8 kHz. The unit's frequency response range shall be 60 Hz to 16 kHz (+/- 5dB). The sensitivity shall be 96dB 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 6.8" (173mm). The unit's total weight shall not exceed 12.4lbs (5.6 kg).

The loudspeaker shall be AMK Innovations model XCX1201.

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

### Polar Responses

