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AMK Commercial Series

QSA 615

Quatro Speaker System
 1 self amplified with 3 companions



The **AMK QSA615** powered speakers feature a 15 watt Class D digital design amplifier, with > 75% efficiency for the main speaker, and a three companion speakers for quatro system. The speaker is a full range, low distortion, coaxial transducer assembly that combines high performance, power handling and a very smooth response.

The loudspeaker driver, CX601, is one of the few transducers in the commercial sound industry that produces and meets standards required for recording studio use. AMK took this quality and has engineered it for overhead applications.

Excellent dispersion, wide bandwidth, and a smooth frequency response make this the top choice for today's overhead commercial applications.

Among the range of applications for the QSA Series are educational markets, corporate boardrooms, and any use that benefits from direct input of the signal from the source. (i.e., ceiling mount projector)

Features:

- * All metal construction, including baffle
- * High performance 6½" coaxial loudspeaker with wide dispersion
- * Self powered with 20 watt Class D amplifier
- * **UL Listed** PK-213-6QM Enclosure

Innovative Features

Each system includes a renowned AMK Coaxial loudspeaker like those already installed in hundreds of locations

Easy to install

- All-metal swivel mounting system allows standard installation of speakers without having to align the enclosure to the tile bridge
- This installation procedure is quick and unique to the industry
- Architecturally pleasing white perforated metal grille that uses a unique metal spring system for a "no visible hardware finished look and the ease of a "snap on" installation

Custom Manufacturing Options

- Custom depth back enclosures are available
- Power supply available internal or external

Safety

- The use of all-metal attachment parts makes for an overall safer installation
- All-metal swivel prevents breakage of swivel during installation
- All-metal swivel mounting system is not easily compromised by fire

Sound

- The plenum compatible back enclosure is designed to maximize the performance of this studio quality speaker

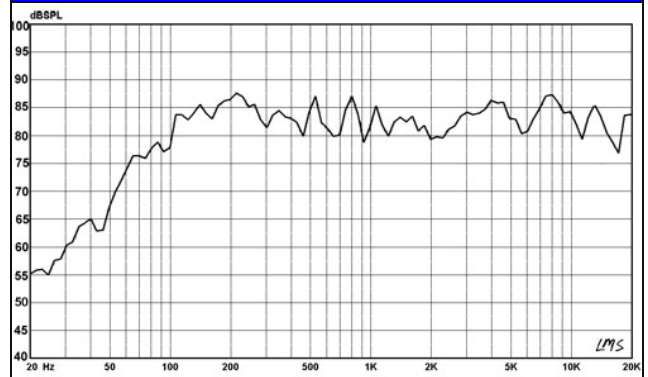
Specifications

Frequency Response	65 Hz - 20 kHz
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	144 deg.
Magnet Weight	13 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Soft Dome
Woofer Cone	Polypropylene
Surround Material	Inverted Rubber
Crossover Frequency	5.0 kHz
Depth of the Enclosure	10 in.
Diameter of the Grille	12.75 in.
Enclosure Mounting	Metal Swivel Clamp

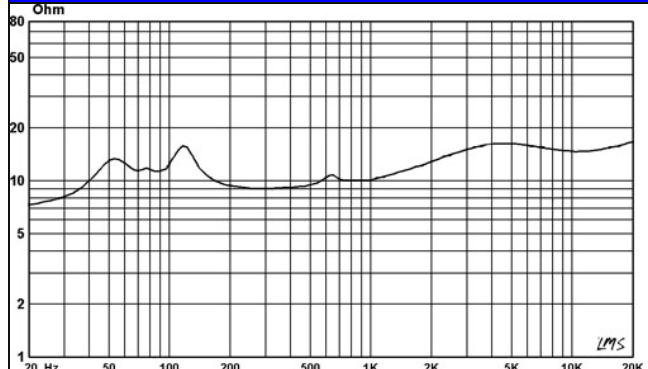
Amplifier Specifications

Amplification	15 watt Class D design amplifier
Amplifier Efficiency	> 75%
Total Harmonic Distortion	< 0.2%
Signal to Noise Ratio	>95dB
Protection	Protected as to short circuit to supply and ground, as well as minimum current
Controls	Input potentiometer level adjustment

FREQUENCY RESPONSE



IMPEDANCE CURVE



MODEL OPTIONS

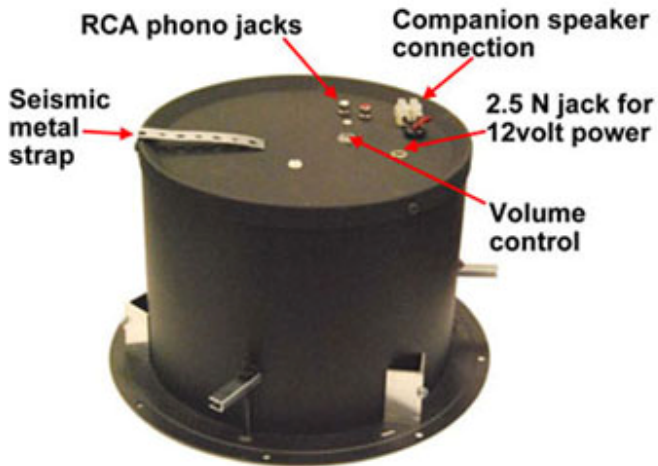
Model	Power Supply	Power Connection	Input Connection	Signal Input	Slave input/output connections
QSA615	External 12Volt	2.5mm N jack	Two RCA phono jacks	Stereo to Mono unbalanced	Screw terminal block connectors
QSA615-OM	External 12Volt	2.5mm N jack	One RCA phono jack	One unbalanced Input	Screw terminal block connectors
QSA615-JFS	External 12Volt	2.5mm N jack	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
QSA615-JFM	External 12Volt	2.5mm N jack	3.81mm three position Phoenix type connector	One balanced Input	Screw terminal block connectors
QSA615-TFS	External 12Volt	3.81mm two position Phoenix type connector	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
QSA615-TFM	External 12Volt	3.81mm two position Phoenix type connector	3.81mm three position Phoenix type connector	One balanced Input	Screw terminal block connectors
QSA615-CFS	External 12Volt w/ Screw Terminal	3.81mm two position Phoenix type connector	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
QSA615-CFM	External 12Volt w/ Screw Terminal	3.81mm two position Phoenix type connector	3.81mm three position Phoenix type connector	One balanced Input	Screw terminal block connectors
QSA615-EFS	12 Volt for external higher amperage multi unit supply (User option for power source)	3.81mm two position Phoenix type connector	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
QSA615-EFM	12 Volt for external higher amperage multi unit supply (User option for power source)	3.81mm two position Phoenix type connector	3.81mm three position Phoenix type connector	One balanced Input	Screw terminal block connectors

MODEL OPTION CONFIGURATIONS

(For powered unit)

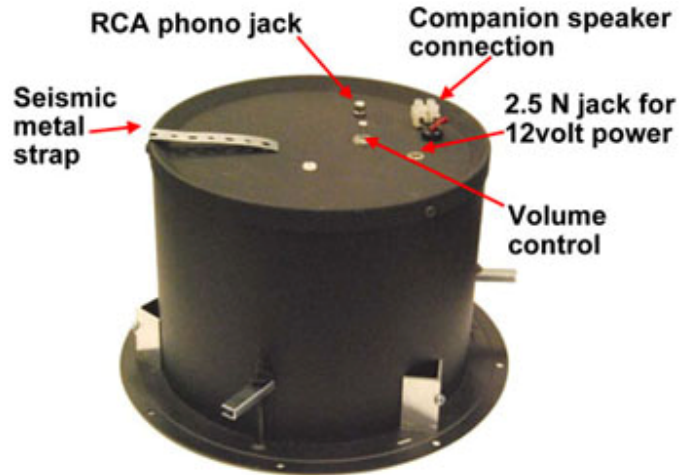
QSA 615

Stereo to Mono unbalanced



QSA 615-OM

One unbalanced input



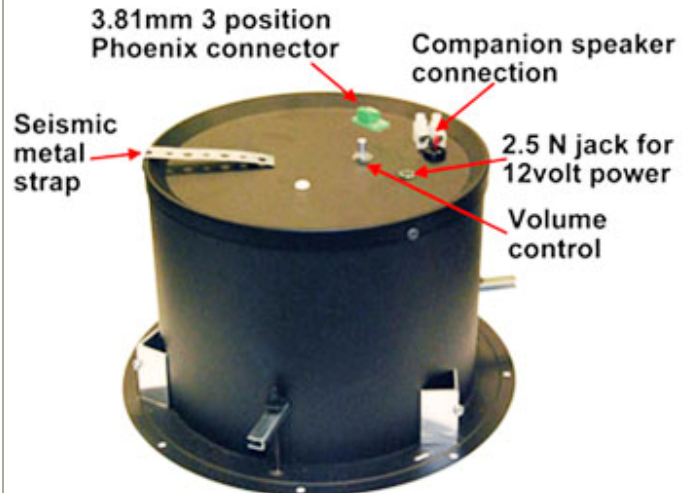
QSA 615-JFS

Stereo to Mono unbalanced



QSA 615-JFM

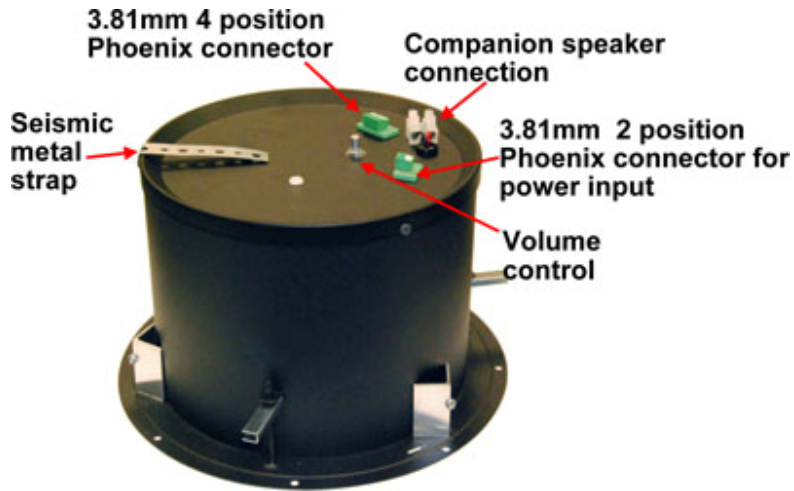
One balanced input



MODEL OPTION CONFIGURATIONS

(For powered unit)

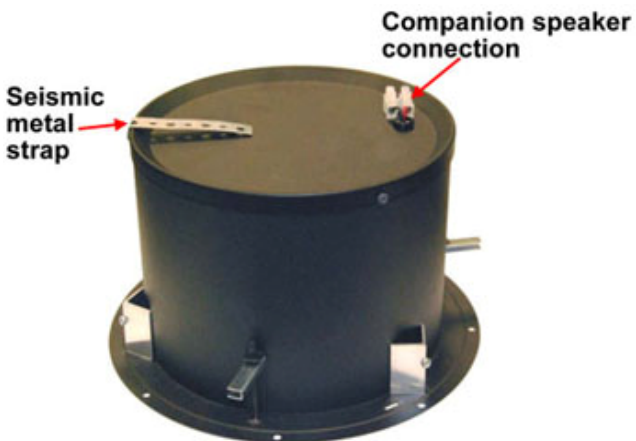
QSA 615-TFS, CFS, EFS Stereo to Mono unbalanced



QSA 615-TFM, CFM, EFM One balanced input



Companion Speaker

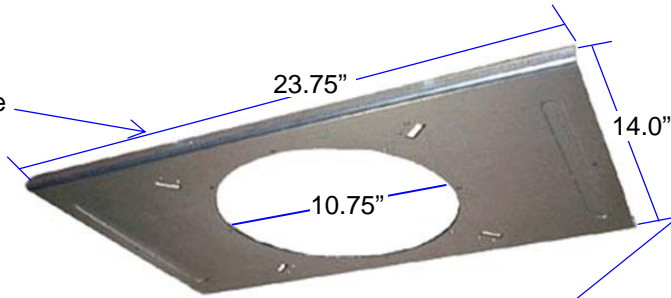


Custom Made

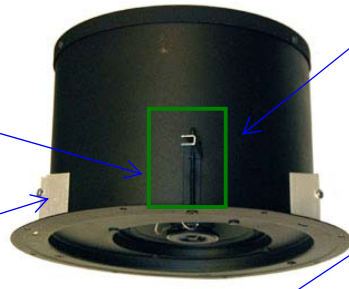
Upon request, AMK makes custom made speaker assemblies according to your specifications

PSA 615 ILLUSTRATION

Standard Ceiling Tile Bridge



Plenum Compatible Back Enclosure
NFPA-70 National
 Electric Code, **UL 1480**
 Speakers for Fire
 Protective Signaling
 Systems

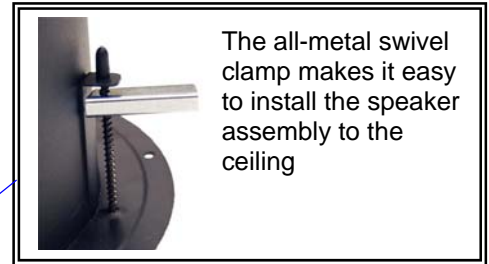
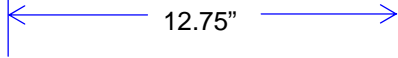


Cardboard
 Paint Mask (To
 be discarded
 after
 Painting)

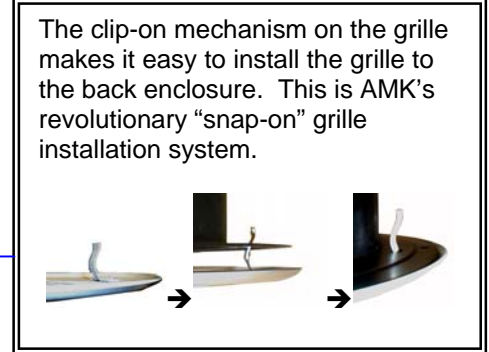
Guide for alignment of
 enclosure to tile bridge
 for grille installation



White Perforated
 Metal Grille

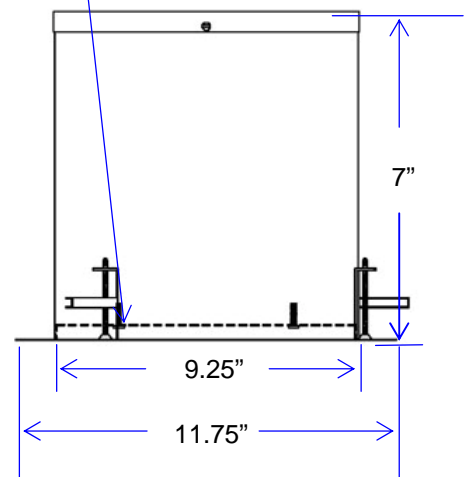


The all-metal swivel
 clamp makes it easy
 to install the speaker
 assembly to the
 ceiling



The clip-on mechanism on the grille
 makes it easy to install the grille to
 the back enclosure. This is AMK's
 revolutionary "snap-on" grille
 installation system.

Recessed speaker baffle plate



Power Supplies



For use with QSA615, QSA615-OM, QSA615-JFS, QSA615-JFM



For use with QSA615-TFS, QSA615-TFM,



For use with QSA615-CFS, QSA615-CFM

Architect's & Engineer's Specifications

The powered loudspeaker system shall be **AMK QSA 615(-_____)**. The speaker shall feature a 15watt Class D design amplifier, with >75% efficiency for the speaker. The powered speaker assembly in the system shall be of the coaxial type with an 6.5" woofer of polypropylene, an inverted rubber surround, and a 1" polyamide soft dome tweeter mounted on a post. The loudspeaker system shall have a white metal round grille that screws into the rim of the mounting enclosure. The system shall have input potentiometer for level adjustment.

The system shall be a quad system consisting one self amplified and three companion speakers

The transducer in the each loudspeaker system shall be AMK CX 601 coaxial loudspeaker. The woofer shall have a 13 oz. (369g) Barium Ferrite magnet. The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.0 kHz. The low frequency reproducer shall have 1" (25.4mm) voice coil and the high frequency reproducer shall have 0.51" (13mm) voice coil.

The system shall have a frequency response of 65 Hz- 20 kHz (+/- 5dB). The power handling shall be 25watts at 16 ohm impedance. The sensitivity shall be 88dB at 1watt / 1meter.

The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the enclosure shall not exceed 11.75". The system shall include a tile bridge. The system shall have a metal strap for attachment to the structure for seismic protection.

The total weight of the each speaker system shall not exceed 9.0 lbs.

The loudspeaker system shall be AMK Innovations model **QSA 615(-_____)**.

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

Polar Responses

