



AMK Commercial Series

## PSA615-EDU

Self Amplified Speaker and Wiring Package



AMK combines the ease of one part number ordering and appreciably shorter installation times in a simple self-amplified speaker package that includes premeasured and terminated cables.

When ordering the PSA615-EDU package, with its included cabling and quick connections, means not having to worry about bulk cable, random terminations, extra staging, or assembly at the job site.

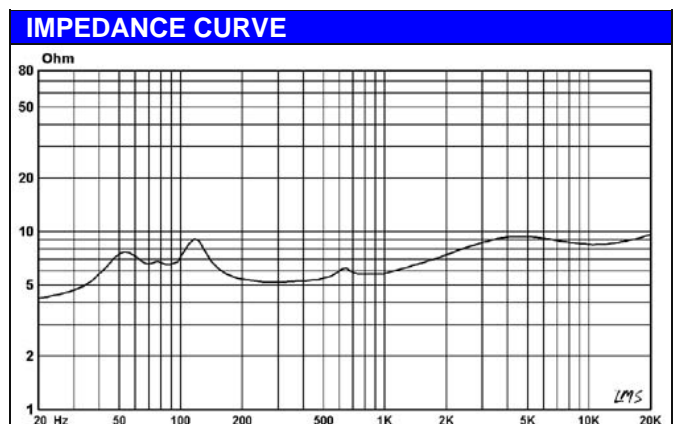
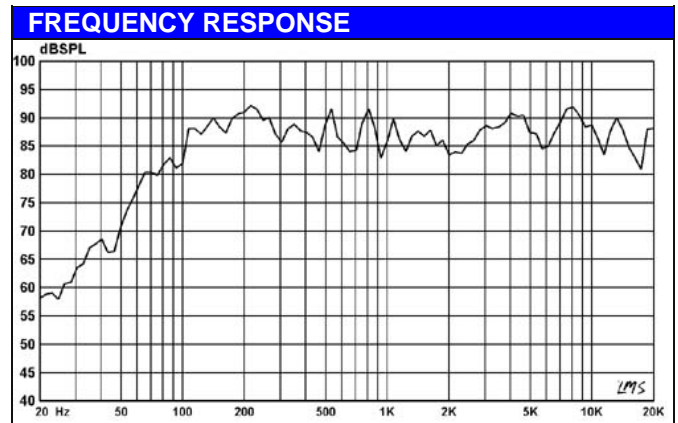
Installing the PSA615-EDU means there is no guess work on the wiring. All terminations are unique so there can be no mistake where things should be attached. This allows the most inexperienced installer to utilize the PSA615-EDU system with no confusion or call backs.

The PSA615-EDU utilizes the CX602 driver with a dispersion of 144 degrees. The standard set of 2 speakers is more than ample to cover the average classroom(25x20). The perfect match of the CX602, with its high sensitivity and great frequency response, give you the highest quality audio for the best possible cost.

This specialized classroom package has the same 5 year warranty included with all AMK products. The PSA/QSA series has proven itself to be extremely reliable in classroom, board room and other applications for several years. Now we offer a complete install package to further streamline installation and boost productivity for the quick installation needed.

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



## Package items included with the paired speakers



- \* 25ft plenum rated 3.5mm stereo (male to male) cable for projector / computer audio signal cable
- \* 25ft plenum rated 18 gauge single RCA phono plug (male to male) speaker interconnect
- \* 25ft. plenum rated pre-wired cable with two position Phoenix type connector to spade lugs for power



- \* Perforated white metal grilles
- \* Plenum rated non-conductive tile bridges
- \* Wall mountable power supply

## Model Configurations

3.5mm combining stereo jack for line level audio from projector or computer

Single RCA jack for companion speaker connection

Single RCA jack for signal from amplified speaker unit

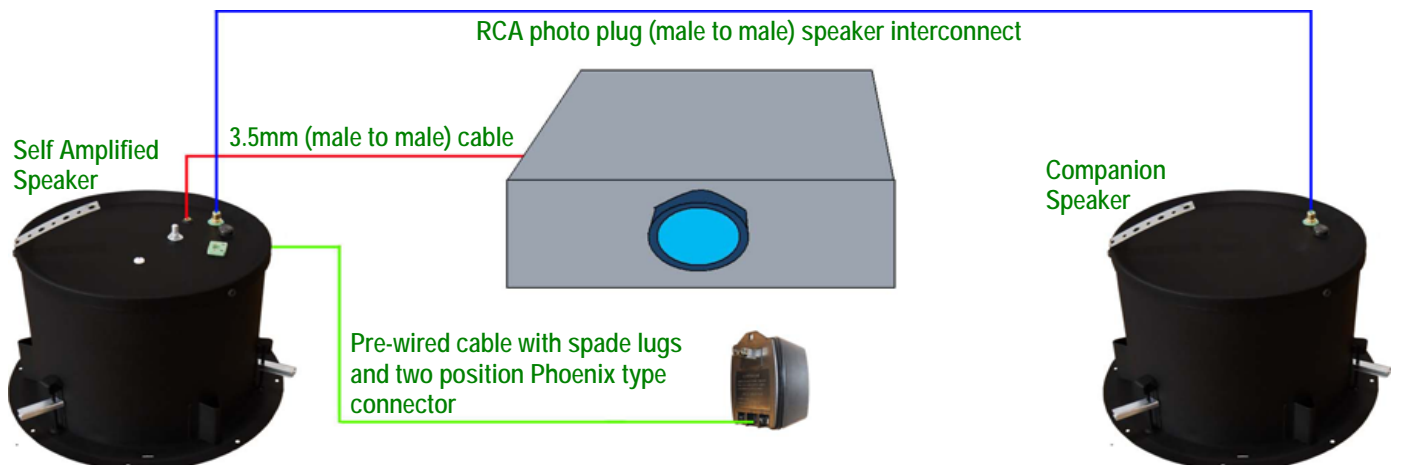
Volume Control

3.81mm two position Phoenix type connection for 12 volt 1.5A power input

Seismic Metal Strap

Seismic Metal Strap

## Installation Diagram



## Innovative Features

### 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

### Plug and Play

- With all the wires needed with the system, the system is ready to go when you just plug the wires to appropriate connections.

### 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

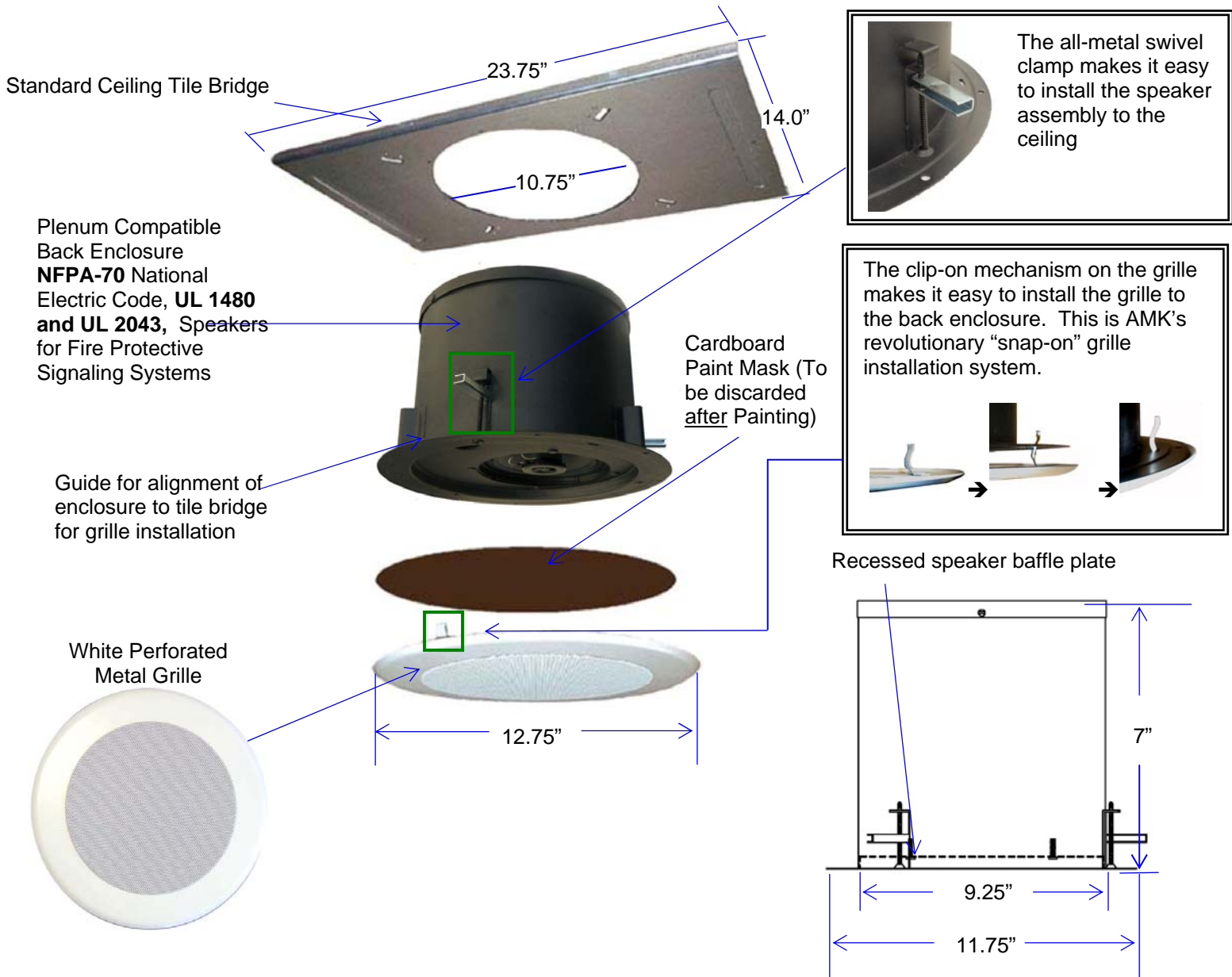
### Sound

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

### Custom Manufacturing Options

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

## PSA615-EDU ILLUSTRATION



## Architect's and Engineer's Specifications

The powered loudspeaker system shall be **AMK PSA615-EDU**. 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 pair system consisting one self amplified and one companion speaker.

The system shall include following;

- \* 25ft plenum rated 3.5mm stereo (male to male) cable for projector / computer audio signal cable
- \* 25ft plenum rated 18 gauge single RCA phono plug (male to male) speaker interconnect
- \* 25ft. plenum rated pre-wired cable with two position Phoenix type connector to spade lugs for power

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.

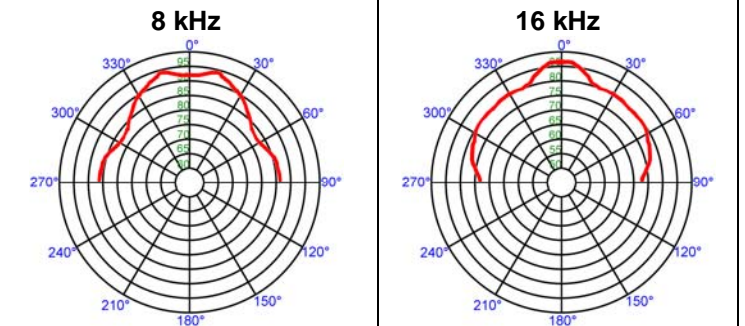
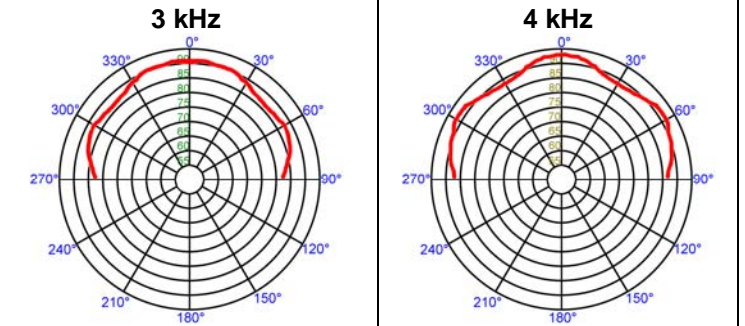
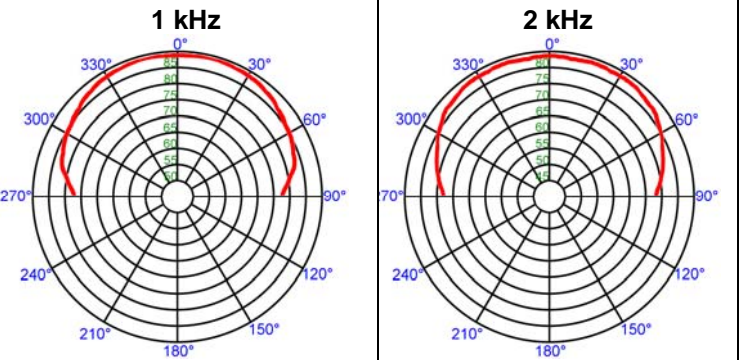
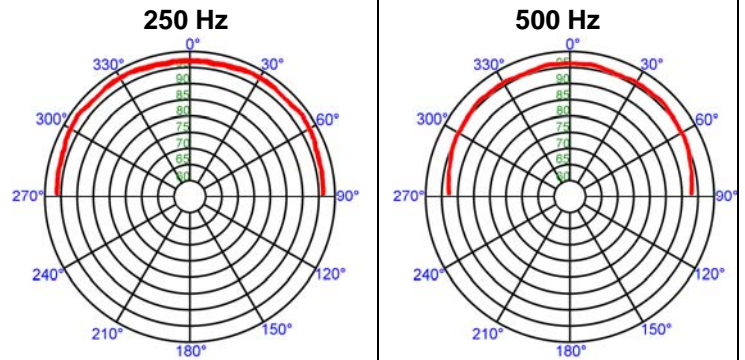
The system shall have a frequency response of 65 Hz- 20 kHz (+/- 5dB). The power handling shall be 25watts at 16 ohm impedance. The sensitivity shall be 88dB at 1watt / 1meter.

The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the enclosure shall not exceed 8.75". 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 **PSA615-EDU**.

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

## Polar Responses



Freq	Deg	Q	DIdB
250 Hz	100°	3.8	5.8
500 Hz	96°	4.8	6.8
1 kHz	79°	6.8	8.3
2 kHz	72°	6.7	8.2
3 kHz	66°	9.2	9.6
4 kHz	86°	8.4	9.2
8 kHz	40°	7.1	8.5
16 kHz	16°	15.3	11.8