



**AMK Commercial Series** 

# **PSA802-RPS (-P)**

Self Amplified 8" Coaxial Loudspeaker Assembly



The **AMK PSA802-RPS** powered speakers feature a 30 watt Class D digital design amplifier, with > 75% efficiency for the main speaker. These units are available as single master speakers or sets with an unpowered companion speaker (**PSA802-RPS-P**) The speaker combines high performance, power handling, and a very smooth response.

The loudspeaker driver, CX802, is one of the few transducers in the commercial sound industry that produces and meets the standards of recording studio. Excellent dispersion, wide bandwidth, and a smooth frequency response make this the top choice for today's overhead commercial applications.

There are wide ranges of the application for this unit, especially in educational markets and corporate boardrooms where direct input of the signal from the processor is desired (i.e., projectors, laptops, or any line level device)

#### Features:

- \* All metal construction, including baffle
- \* High performance 8" coaxial loudspeaker with wide dispersion
- \* Self powered with 30 watt Class D amplifier
- \* Water and weather resistant for outdoor and humid environment.
- \* UL Listed Speaker Enclosure (UL 1480, UL 2043)

#### **Innovative Features**

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Easy t												<u>Safety</u>	e											

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

- 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

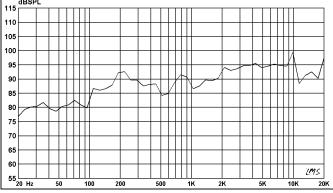
#### Sound

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

Specifications	
Frequency Response	55 Hz - 20 kHz
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	110 deg.
Magnet Weight	20 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Soft Dome
Woofer Cone	Polypropylene
Crossover Frequency	5.5 kHz
Depth of the Enclosure	7 in.
Diameter of the Grille	12.75 in.
Enclosure Mounting	Metal Swivel Clamp
Certifications and Listing	UL 1480 / 2043, CE, RoHS

Amplifier Specifications							
Amplification	30 watt Class D digital 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** Ohr 50 20 10 IMS 1 20 Hz 100 200 500 5K 50 1K 2K 10K 20K

### **MODEL CONFIGURATION**



### **Architect's & Engineer's Specifications**

The powered loudspeaker system shall be **AMK PSA802-RPS (-P).** The speaker shall feature a 30 watt Class D digital amplifier, with >75% efficiency for the speaker. The powered speaker systems shall be one amplified speaker with option of one other companion speaker.

The loudspeaker system shall have a white metal round grille with a mounting spring tab snaps into the rim of the enclosure.

The powered unit of the system shall have two RCA phono jacks for unbalanced audio input. The input level shall be control by the internal potentiometer. The power connection shall be a 3.81mm two position phoenix type connector. The system shall have 12 volt 1.5 Amps screw mount power supply.

The transducer in the loudspeaker system shall be AMK CX 802 coaxial loudspeaker. The woofer shall have a 40 oz. (1.13 Kg) Barium Ferrite magnet. The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.5 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 55 Hz- 20 kHz (+/- 5dB). The power handling shall be 40watts at 8 ohm impedance. The sensitivity shall be 91dB at 1watt / 1meter.

The depth of the enclosures shall be 7 inches. The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the enclosures shall not exceed 11.75". The system shall include a tile bridges. The system shall have a metal strap for attachment to the structure for seismic protection.

The total weight of the each unit system shall not exceed 10.0 lbs.

The loudspeaker system shall be AMK Innovations model **PSA802- RPS**.

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

