

S P E C I F I C A T I O N S



PAA™ 250 Architectural Dynamic Microphone

SPECIFICATIONS

Element Type:

Dynamic

Polar Pattern:

Cardioid

Front-to-Back Rejection:

17 dB typical

Impedance:

Low (500 ohms, balanced)

Frequency Response:

50 to 14,000 Hz

Sensitivity:**Output Power Level:**

-59 dB (0 dB = 1 mw/10 microbars*)

Open Circuit Voltage:

-75 dB (0 dB = 1 volt/dyne/cm²)

Case (Housing):

Die-cast alloy

Finish:

Low-gloss black

Windscreen:

Brazed steel mesh

Pop Filter:

Integral acoustic foam

Connector:

3 pin XLR-type

Switch:

Slide on-off, shorting

Phasing:

Positive (inward) pressure on diaphragm produces positive voltage at pin #2

Weight:

8 oz. (227 grams)

Furnished Accessories:

Swivel adaptor, protective pouch, and 20' (6.1 m) balanced microphone cable with XLR-type connectors.

* 10 microbars = 1 pascal = 10 dynes/cm²

FEATURES

- On-off switch in handle
- Clean, natural sound
- Cardioid unidirectional polar response
- Low pop and handling noise
- Rugged die-cast and steel case
- Low-gloss black finish

DESCRIPTION

The PAA™ 250 is a cardioid unidirectional dynamic microphone designed for applications in which a built-in "on-off" switch is desired. With a clean, natural speech response and good noise and feedback rejection, the PAA 250 is an ideal microphone for church and institutional systems, meeting rooms, auditoriums — almost anywhere in which convenient local control of the microphone is required. An integral acoustic foam pop and wind filter provides effective control of plosive sounds and moderate wind. The internal shock-mounting system minimizes handling and stand noise. The PAA 250 is a rugged, reliable microphone well suited for rental systems, convention centers and similar rough usage applications.

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NOTE

The switch mutes the microphone by directly shorting across the dynamic element. Microphones with this type of switching should not be used if more than one microphone is connected to the same input, since the "off" function on one microphone will also short any other unit connected to that input. If this type of operation is required, the use of a transformer-type microphone combiner is suggested. (Another possible alternative is to rewire the PAA™ 250 so that the switch is used to open one side of the line for "off.")

ARCHITECTURAL SPECIFICATIONS

The microphone shall be a moving coil dynamic type with a frequency response of 50 Hz to 14 kHz. The microphone shall have a cardioid polar characteristic with a rear response that is 15 to 20 dB down. The microphone shall have an output power level of -59 dB where 0 dB = 1 milliwatt per 10 microbars, and nominal impedance of 500 ohms.

The microphone shall include a handle-mounted "on-off" switch slide type with positive action which short-circuits the microphone output. The microphone shall have non-reflecting, low-gloss paint on a die-cast alloy housing and a brazed metal screen. The connector shall be a 3-pin XLR equivalent audio type and a swivel adaptor shall be provided to mount on a stand having $\frac{5}{8}$ "-27 thread. The microphone shall have overall dimensions of $6\frac{1}{2}$ " in length and $1\frac{3}{4}$ " in diameter. The microphone shall be a Peavey Architectural Acoustics Division model PAA™ 250 or equivalent.

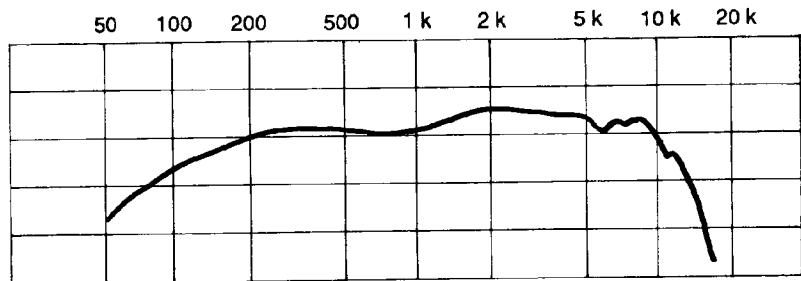
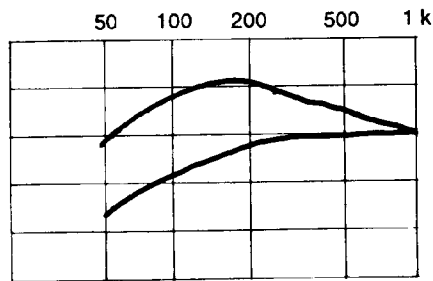


Figure 1. Frequency Response



Proximity effect is a naturally occurring phenomenon in unidirectional microphones. The effect is to accentuate or boost the low frequency response. This effect is a function of distance from the diaphragm to the source and increases as the diaphragm is moved closer to the source.

Figure 2. Proximity Effect

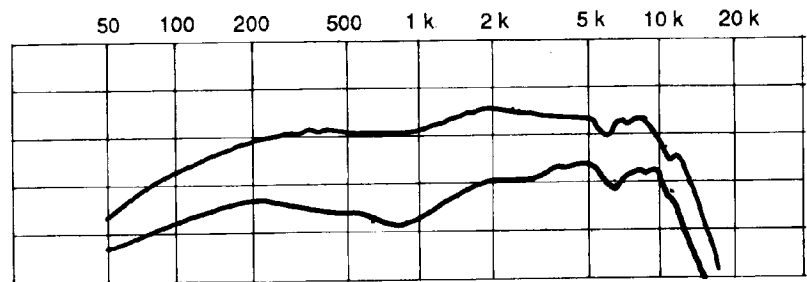
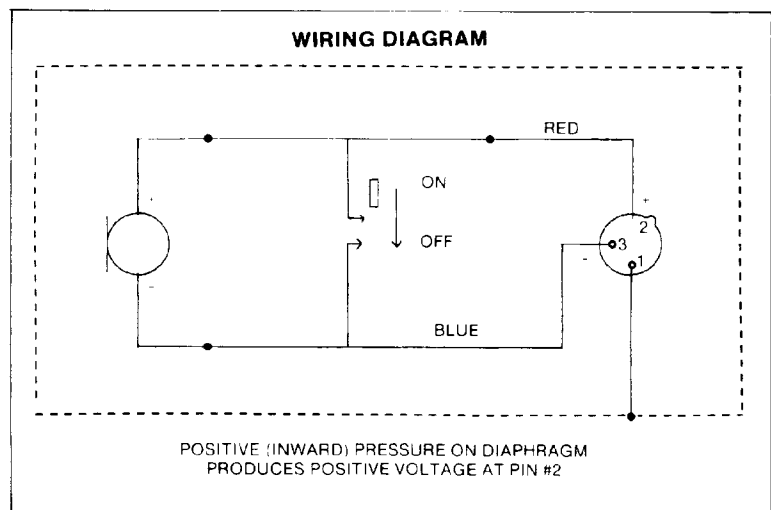
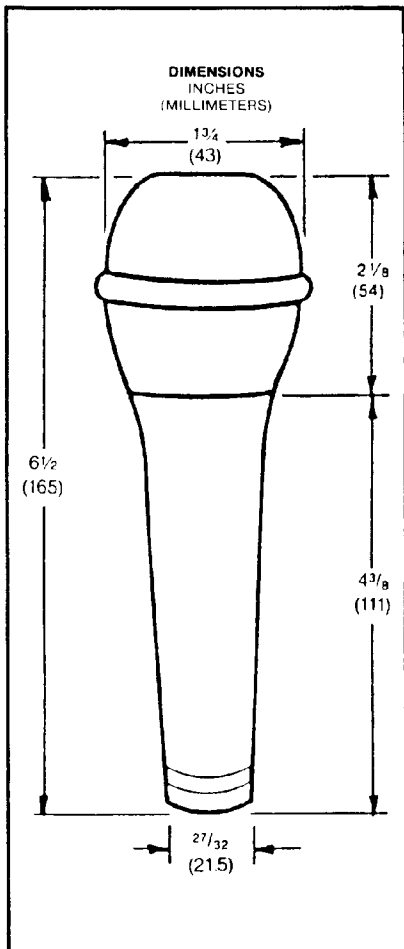
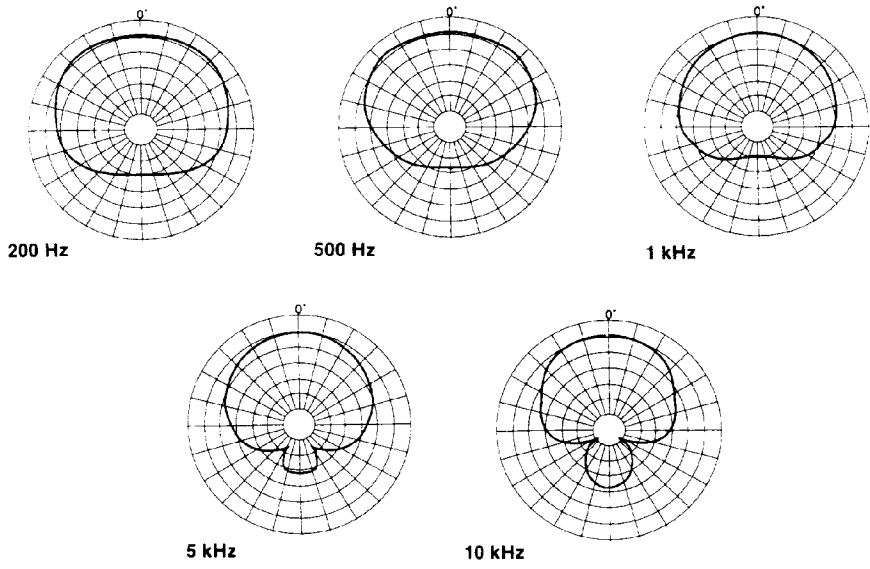


Figure 3. 0° and 180° Response



LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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