EM-410 Lavalier Microphone



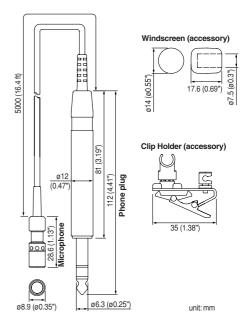
DESCRIPTION

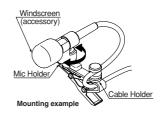
The TOA EM-410 is designed with a focus on clear, accurate voice reproduction with maximum intelligibility, making it ideal for such applications as lectures and religious services. It is equipped with an electret condenser microphone element that has a hypercardioid pickup pattern, and which rejects undesirable off-axis sound, to minimize potential feedback. The EM-410 is designed to prevent sound degradation when it is attached at the chest, so as to cut noise and ensure optimal performance. The microphone's capsule rotates 360 degrees, allowing the best possible pickup angle, according to where the microphone is worn.

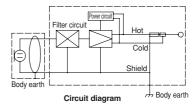
FEATURES

- Ideal for voice-oriented applications such as lectures, presentations and religious services.
- Compact electret condenser microphone element with hypercardioid pattern for highly focused pickup.
- Designed for best performance when attached to the chest area.
- The cable holder minimizes noise from cable and clothes rustling.
- Capsule rotates 360 degrees, for optimal pickup even when worn on a lapel.
- Phantom power range of 9 to 52 volts enhances operational versatility.

APPEARANCE AND DIMENSIONAL DIAGRAM







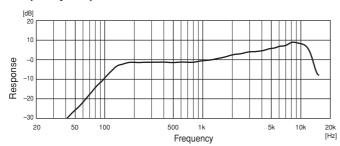


SPECIFICATIONS

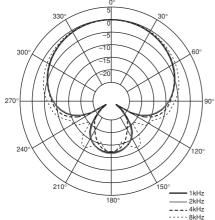
Element	Electret condenser
Polar Pattern	Hypercardioid
Rated Impedance	120Ω, balanced
Rated Sensitivity	-47dB (1kHz 0dB = 1V/Pa)
Phantom Power	9 – 52V DC
Frequency Response	100Hz – 15kHz
Output Connector	Blanced-phone plug
Cable Length	5.0m (16.4 ft)
Operating Temperature	0°C to +40°C (32°F to 104°F)
Finish	Body: Copper alloy, black, semi-gloss, paint
Dimensions	ø8.9 × 28.6mm (ø0.35" × 1.13") (cord excluded)
Weight	100g (0.22 lb)
Accessory	Windscreen × 1, Clip Holder × 1

CHARACTERISTIC DIAGRAMS

Frequency Response



Polar Response



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The lightweight miniature lavalier microphone shall be able to be clipped to a shirt or jacket, and shall have a hypercardioid electret condenser microphone element, for highly focused pickup and rejection of off-axis sound. The microphone shall be designed for best performance when it is attached at the chest. The microphone capsule shall rotate 360°, to enable the best possible pickup angle when worn on a lapel. Frequency response shall be 100 Hz to 15 kHz. Rated impedance shall be 120 $\Omega_{\rm c}$ balanced, and rated sensitivity shall be –47 dB (1 kHz 0 dB=1 V/Pa). The microphone shall be powered by any phantom power source supplying 9 – 52 volts.

The output connector shall be a balanced-phone plug, and cable length shall be 5.0 m (16.4 ft). Operating temperature shall be 0° C to +40° C (32° F to 104° F). Body finish shall be copper alloy, with black semi-gloss paint. Dimensions shall be Ø8.9 \times 28.6 mm (Ø0.35" \times 1.13") (cord excluded), and weight shall be 100 g (0.22 lb). A windscreen and a clip holder shall be provided as accessories. With clear and accurate voice reproduction, the microphone shall be suited for such applications as lectures and religious services.

The lavalier microphone shall be TOA model EM-410.

