Applications and Placement

The following table lists the most common applications and placement techniques. Keep in mind that microphone technique is largely a matter of personal taste; there is no one “correct” microphone position.

<table>
<thead>
<tr>
<th>Application</th>
<th>Suggested Microphone Placement</th>
<th>Tone Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick Drum</td>
<td>5 to 7.5 cm (2 to 3 in.) away from beater head, slightly off-center from beater.</td>
<td>Sharp attack; maximum bass sound, highest sound pressure level.</td>
</tr>
<tr>
<td></td>
<td>20 to 30 cm (8 to 12 in.) from beater head, on-axis with beater.</td>
<td>Medium attack; balanced sound.</td>
</tr>
<tr>
<td>Guitar &amp; Bass Amplifiers</td>
<td>2.5 cm (1 in.) from speaker, on-axis with center of speaker cone.</td>
<td>Sharp attack; emphasized bass.</td>
</tr>
<tr>
<td></td>
<td>2.5 cm (1 in.) from speaker, at edge of speaker cone.</td>
<td>Sharp attack; higher frequency sound.</td>
</tr>
<tr>
<td></td>
<td>60 to 90 cm (2 to 3 ft.) back from speaker, on-axis with speaker cone.</td>
<td>Softer attack; reduced bass.</td>
</tr>
</tbody>
</table>

Avoiding Pickup of Unwanted Sound Sources

Place the microphone so that unwanted sound sources, such as monitors and loudspeakers, are directly behind it. To minimize feedback and ensure optimum rejection of unwanted sound, always test microphone placement before a performance.

P.A. LOUDSPEAKER

MONITOR

Recommended Loudspeaker Locations for Cardioid Microphones
Using the Quick-Release Lever

This microphone features a quick-release lever to easily adjust position.

1. Pull the lever open
2. Move the microphone into the desired position
3. Press the lever back towards the microphone to tighten

![Diagram of microphone showing lever in different positions]

**Note:** To adjust the tension on the lever, pull it open and use a flat head screwdriver to tighten or loosen the bolt on the opposite side.

Specifications

**Type**
Dynamic (moving coil)

**Frequency Response**
50 to 12,000 Hz

**Polar Pattern**
Cardioid

**Output Impedance**
150 Ω

**Sensitivity**
at 1 kHz, open circuit voltage
-55 dBV/Pa¹ (1.75 mV)

**Polarity**
Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

**Weight**
454 g (16.01 oz.)

**Connector**
Three-pin professional audio (XLR), male

**Environmental Conditions**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temp.</td>
<td>-20° to 165°F</td>
</tr>
<tr>
<td>Relative Hum.</td>
<td>0 to 95%</td>
</tr>
</tbody>
</table>

1 Pa=94 dB SPL

**Typical Frequency Response**

![Graph showing frequency response]

**Typical Polar Pattern**

![Graph showing polar pattern]

**Overall Dimensions**

67.0 mm diameter (2.64 in.)

Certifications

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

The CE Declaration of Conformity can be obtained from:

[www.shure.com/europe/compliance](http://www.shure.com/europe/compliance)

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