ENGINEERING DATA

- True Hypercardioid Characteristic
- Extended Frequency Response
- No Susceptible “Venting” on Shaft
- Highly Sensitive
- “Standard” Setting Specification Consistency i.e., any two “random choice” microphones are acceptable as a stereo matched pair
- Available with Cannon or DIN Connector

DESCRIPTION AND APPLICATIONS

The M 69 is a professional dynamic moving coil microphone with wide response and high output, the hypercardioid characteristic of which borders on the theoretically possible. Exceptionally robust, the M 69 is particularly suited to withstand the rigors of professional use. It is also completely unaffected by humidity and temperature extremes. Highly sensitive, the user has the choice in the M 69 SM version of low frequency emphasis when used close to the mouth in the “M” position or in the “S” position, smooth peak free response without “booming”. Unlike ordinary microphones, the M 69 does not need any venting on its shaft to achieve its outstanding directional characteristics, thus it can be hand held with absolutely no danger of altering its hypercardioid or tonal characteristics.

BEYER DYNAMIC, INC.
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This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 69.

**SPECIFICATIONS**
- Operating Principle: Pressure Gradient
- Frequency Response: 50 to 16,000 Hz
- Polar Pattern: Hypercardioid
- Attenuation at 135°: >20 db
- Output Level at 1 kHz:
  - Open Circuit Voltage: 2.4 mV/Pa
  - EI/A Sensitivity Rating: –51 dbm
- Electrical Impedance: 200 ohms
- Load Impedance: >1,000 ohms
- Diaphragm: Poly carbonate
- Case: Brass
- Case Finish: Shaft matt black chromium-plated, top mesh chromed
- Net Weight (less cable): 305 grams
- Built-in male connector: Switchcraft M 3 M

**WIRING DIAGRAM**
- M 69 N (T)
- M 69 N (C)
- M 69 N (B)

Positive pressure produces positive voltage on red cable lead (+)

**DIMENSIONS**
- In inches (millimeters in brackets)

![Dimensions Diagram](image)

**ARCHITECTS’ AND ENGINEERS’ SPECIFICATIONS**

The microphone shall be a moving coil (dynamic) type microphone with a frequency range of 50 to 16,000 Hz. The microphone shall have a hypercardioid polar characteristic. Attenuation at 135° shall exceed 20 db. The microphone output shall be –51 dbm when 0 dbm = 1mV/Pa respectively 2.4 mV/Pa. EI/A sensitivity rating at 1,000 Hz shall be –144 dbm. Electrical impedance shall be 200 ohms. A special version with built-in voice-music switch model M 69 N (C) shall be available. With switch in “S” position, a bass cut of 12 db at 50 Hz shall be reached.

The case shall be made of brass. Case finish shall be black matt chromium-plated and top mesh finish shall be chromed. The overall dimensions shall be: 7.15” (181.5 mm) in length and 1.3” (34.8 mm) (head) × 1” (25.5 mm) (shaft) in diameter.

The microphone shall be available with the following connector versions: Switchcraft connector M 3 M or equivalent (M 69 N (C)), 3-pin Tuchel connector T 3262 or equivalent (M 69 N), T 3007 special connector or equivalent (M 69 N (T)), 4-pin Tuchel connector T 3402 or equivalent (M 69 N (B)), the model with voice-music switch shall be available with the connector T 3262 or equivalent (M 69 SM) or with Switchcraft connector M 3 M or equivalent (M 69 N (C) 2).

The BEYER DYNAMIC model M 69 is specified.