

beyerdynamic))))

M 69 N (C)

M 69 N / M 69 N (6) / M 69 N (T)
M 69 SM / M 69 N (C).2

ENGINEERING DATA

Unidirectional Dynamic Microphone

- 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

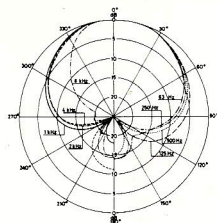
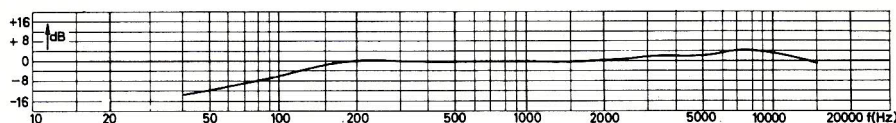
The M 69 is a professional dynamic moving coil microphone with wide response and high output, the hypercardioid characteristic of which borders on the theoretically possible. Exceptionally robust, the M 69 is particularly suited to withstand the rigors of professional use. It is also completely unaffected 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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Telephone (516) 935-8000

Form BA 9

POLAR PATTERN:**FREQUENCY RESPONSE CURVE (± 3 db):**

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
(0 dbm $\triangleq$ 1 mW/Pa)	$\triangleq$ -51 dbm
EIA Sensitivity Rating	-144 dbm
Electrical Impedance:	200 ohms
Load Impedance:	>1,000 ohms
Diaphragm:	Polycarbonate
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 or equivalent
(M 69 N (C))	

FURNISHED ACCESSORIES**

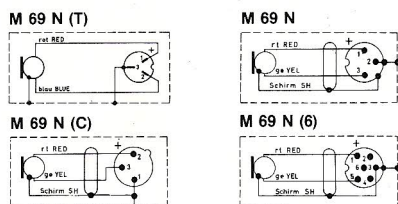
Carrying case	black deluxe leatherette presentation case
Swivel adapter	MKV 25
Popscreen	PS 88 (anthrazite color)

**may vary in its composition

OPTIONAL ACCESSORIES

Cable	type MVK N (C), 7.5", two conductor, shielded, broadcast type, synthetic rubber-jacketed, with Switchcraft A 3 F female connector or equivalent on the microphone end, open ends on amplifier end, leads white (in-phase) and blue or type MVK N, same specification but with a female DIN connector on the microphone end. For further cable sets please inquire.
Clamp	Quick release clamp MKV 6
Windscreen	WS 69, lightweight foam material, available at your choice in grey, red, blue, green and yellow color.
Gooseneck	for M 69 N (C): SH 15/400 N (C) for M 69 N models: SH 15/250 N or SH 15/400 N, base plate ZSH 30
Table stand	ST 300
Floor stand	Lightweight ST 230 incl. boom arm, ST 201/1, ST 201 A/1, ST 205 A/1 + boom arm Sch 211
High quality transformers to connect low impedance lines to high impedance inputs, or vice versa	TR/BV 345 015 006/C-K/5—cable transformer, length of cable 5 m, turns ratio 1:15, impedance 200/45 kohms. Low impedance side—professional three-pin female audio connector, high impedance side—standard 6.35 mm (1/4 in.) phone plug. TR/BV 341 015 006/C-C, plug-in transformer, turns ratio 1:15, impedance 200/45 kohms, input professional three-pin female audio connector, output three-pin male audio connector (male and female connector to mate with Cannon XL series or equivalent). TR/BV 347 015 006 N-H (for DIN sockets) TR/BV 347 015 006 N-K (for input sockets for jack plugs) TR/BV 347 020 007 N-CI (for Cinch sockets)

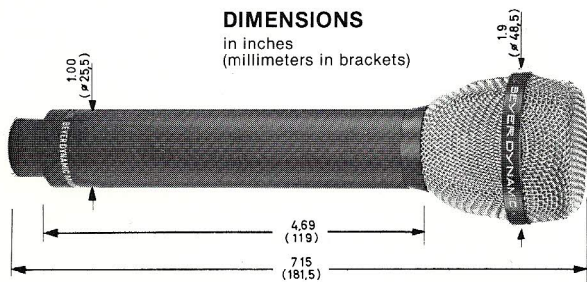
For other transformers (e.g. different turns ratio, DIN connectors) please inquire or see general catalog.

WIRING DIAGRAM

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

DIMENSIONS

in inches
(millimeters in brackets)

**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 $\triangleq$ 1mW/Pa respectively 2.4 mV/Pa. EIA 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).2—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 1.9" (48.5 mm) (head) $\times$ 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)), 6-pin Tuchel connector T 3402 or equivalent (M 69 N (6)); the model with voice-music switch shall be available with 3-pin Tuchel 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.

Subject to change without notice.