

## Cardioid Moving Coil Microphone

### DESCRIPTION

The M 300 offers precision engineering and quality at a popular price. Its efficient, durable moving coil design produces high output. The warm, full-bodied sound of the M 300 is tailored to capture all the distinctive nuances of a vocal or instrumental performance with a subtle high frequency rise, a bass proximity effect and a moderate midrange 'presence' boost. To prevent explosive breath noises in close miking, the M 300 has an integral pop filter. The field-replaceable transducer is housed in a sturdy, matte black anodized case with a one-piece stainless steel basket. The model M 300S includes a noise-free lockable On/Off switch.

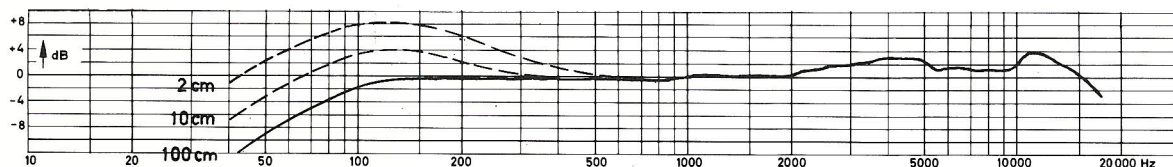
### FEATURES

- **Field-replaceable moving coil transducer**
- **True cardioid polar characteristic**
- **Voice-tapered frequency response**
- **Integral pop filter**

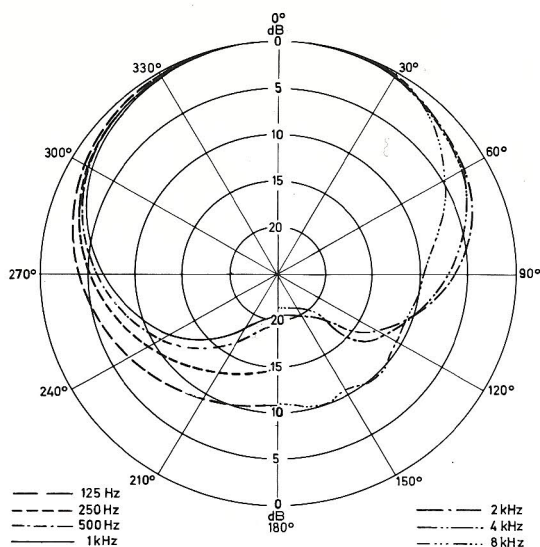
### APPLICATIONS

The M 300 is designed to meet the most strenuous demands of rock, pop and country instrumentalists and vocalists. It also functions effectively in public address applications.

## FREQUENCY RESPONSE CURVE ( $\pm 2.5$ dB)



## POLAR PATTERN

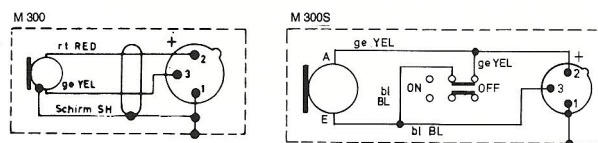


This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 300.

## SPECIFICATIONS

Transducer type:	Dynamic moving coil
Operating principle:	Pressure gradient
Frequency response:	50-15,000 Hz
Polar pattern:	Cardioid
Attenuation at 180° (1kHz):	> 20 dB
Open circuit voltage at 1 kHz:	1.2 mV/Pa
Output level:	-58.5 dBm (0 dBm $\Delta$ 1 mW/Pa)
EIA Sensitivity rating:	-150.2 dBm (0 dBm $\Delta$ 1 mW/2x10 <sup>-5</sup> Pa)
Nominal output impedance:	250 ohms
Load impedance:	$\geq$ 1000 ohms
Diaphragm:	Mylar
Case:	Aluminum
Case finish:	Shaft - matte black anodized; Top - chrome mesh
Male connector:	Neutrik 3 pin
Net weight (less cable):	244 grams (8.6 oz.)

## WIRING DIAGRAM



Positive pressure produces positive voltage on red (M 300) / yellow (M 300S) cable lead (+)

## FURNISHED ACCESSORIES

Carrying case: Black leatherette foam lined  
Mic clip: MKV 8

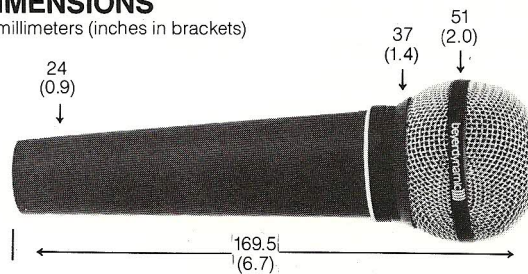
## OPTIONAL ACCESSORIES

Cable: MVK C-C/20 black 20 ft. two-conductor spiral shield synthetic rubber jacketed with black Neutrik 3 pin female XLR connector on mic end and black Neutrik 3 pin male XLR connector on equipment end. MVK C-C also available in 25 and 50 ft. lengths and with 1/4" two-conductor plug at equipment end.

Mic clip: MKV 6 quick release  
Popscreen: PS 260  
Windscreen: WS 69, available in black, red, blue, yellow and green

## DIMENSIONS

In millimeters (inches in brackets)



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be a moving coil dynamic type with a frequency range of 50 - 15,000 Hz. The unit shall have a true cardioid polar characteristic. Attenuation at 180° shall exceed 20 dB. The microphone output shall be -58 dBm when 0 dBm  $\Delta$ 1 mW/Pa respectively 1.2 mV/Pa. EIA sensitivity at 1,000 Hz shall be -150 dBm. The microphone shall have an integral pop filter. Electrical impedance shall be 250 ohms. The case shall be made of aluminum with a matte black anodized finish and a chrome mesh top. The dimensions shall be: 6.7 in. (169.5 mm) overall length, head diameter of 2.0 in. (51 mm) and shaft diameter of 0.9/1.4 in. (25/37 mm). The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The Beyer Dynamic model M 300 is specified. Model M 300S shall have a lockable noise-free On/Off magnetic reed switch.