

Cardioid Condenser Microphones

DESCRIPTION

The MC 734 is a precision-engineered condenser mic designed to reproduce vocal and instrumental music with accuracy and high output, and to eliminate unwanted handling noise. The cardioid pickup pattern is maintained throughout the frequency range, allowing high gain levels without feedback and producing a uniform off-axis response. The MC 734 exhibits flat frequency response from 20 - 18,000 Hz, for a natural, uncolored sound that is effective in a wide range of applications. The "footfall" filter and 3-position bass rolloff attenuate stage resonances and other unwanted low end interference in live performance use. An integral breath filter suppresses pop and hiss noises.

The MC 734 Pa has an improved cartridge suspension system which withstands extremely high SPLs and shortens the "speech distance", increasing output by 6 dB. Its detachable leather handle further reduces handling noise and provides a secure grip. The matte black chromium plating reduces reflectivity.

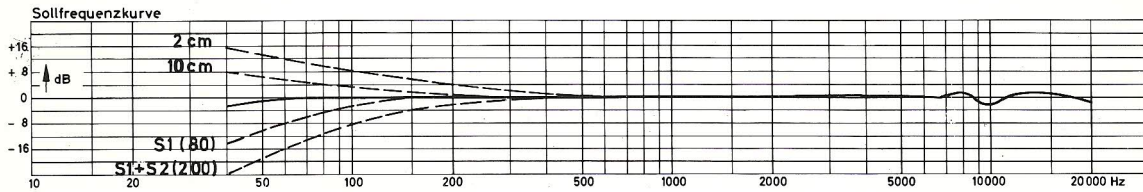
FEATURES

- **Suspension-mounted condenser element**
- **True cardioid polar characteristic**
- **Wide, flat frequency response**
- **Three-position switchable low frequency filter**
- **Integral "footfall" filter eliminates stage resonances**
- **Built-in pop filter**

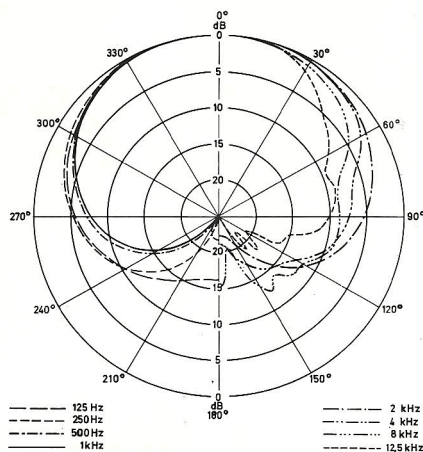
APPLICATIONS

The MC 734 and MC 734 Pa are superb vocal mics for studio and stage use. Their ability to handle high sound pressure levels makes them an excellent choice for brass, wind and electronic instruments as well. The MC 734 Pa is especially recommended for hand-held stage use when the utmost in sound quality, durability and accuracy of reproduction are desired. Its non-reflective plating makes it especially suitable as an on-air announcer's mic, and the accurate response is excellent for voice-overs in TV post production work.

FREQUENCY RESPONSE CURVE (± 2.5 dB)



POLAR PATTERN



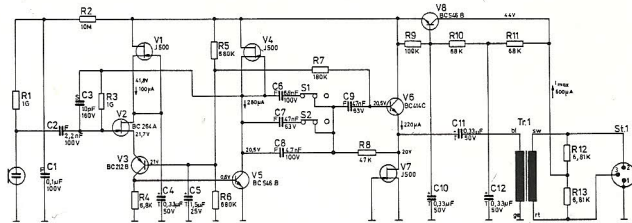
This polar pattern and frequency response correspond to typical machine run specifications from a standard MC 734.

SPECIFICATIONS

Transducer type:	Condenser
Operating principle:	Pressure gradient
Frequency response:	20 - 18,000 Hz
Polar pattern:	Cardioid
Attenuation at 180° (1 kHz):	> 25 dB
Open circuit voltage at 1 kHz:	5 mV/Pa
Output level:	-46 dBm (0 dB Δ 1 mV/Pa)
Maximum SPL with THD 0.5%:	138 dB
S/N ratio:	69 dB
A weighted equivalent SPL:	approx. 18 dB
EIA sensitivity rating:	-137.8 dBm (0 dBm Δ 1 mW/2 x 10 ⁻⁵ Pa)
Noise voltage:	1.7 muVp
Nominal output impedance:	150 ohms
Load impedance:	\geq 1000 ohms
Diaphragm:	Gold vaporized foil
Case:	Aluminum
Case finish:	MC 734: matte nickel MC 734 Pa: matte black chrome
Male connector:	Neutrik 3 pin
Net weight (less cable):	270 grams (9.5 oz.)

WIRING DIAGRAM

MC 734 & MC 734 Pa



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

Power Supply: MSG 248, MSG 648, MSB 48

DIMENSIONS

In inches (millimeters in brackets)



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be a condenser type with a frequency range of 20 - 18,000 Hz. The unit shall have a true cardioid polar characteristic. Attenuation at 180° shall exceed 25 dB. The microphone output shall be -46 dBm when 0 dBm Δ 1 mW/Pa respectively 5 mV/Pa. EIA sensitivity at 1,000 Hz shall be -137.8 dBm. The microphone shall have a signal/noise ratio of 69 dB. Noise voltage shall be 1.7 muVp and the equivalent 'A' weighted noise level shall be approximately 18 dB. Electrical impedance shall be 150 ohms. The case shall be made of aluminum with a matte nickel finish and mesh top. The dimensions shall be: 3.7 in. (95 mm) overall length, head diameter of 1.8 in. (45 mm) and shaft diameter of 1.0 in. (25 mm). The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The Beyerdynamic model MC 734 is specified. The model MC 734 Pa shall provide a 6 dB increase in output and shall have a matte black finish.