

MK 342 E Microphone Capsule

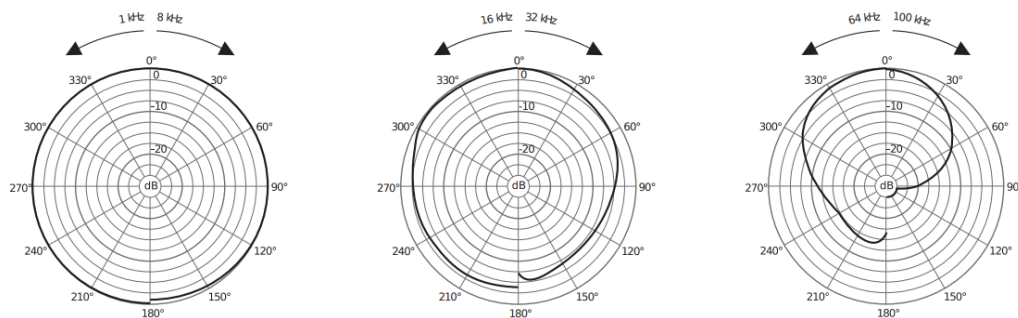
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|--|--------------------------------|----------------|
| Transducer type | Capacitive pressure transducer | |
| Frequency range of the pressure response | ±3 dB | 5 Hz to 70 kHz |
| | ±2 dB | 5 Hz to 50 kHz |
| | ±1 dB | 0 Hz to 20 kHz |
| Field Idle Transfer Factor | 0.25 mV/Pa | |
| Limit sound pressure level for 3 % distortion at 1 kHz | 186 dB | |
| Noise | 60 dB | |
| Polarization voltage | backelectret | |
| Capacitance with polarization voltage at 1 kHz | 4.2 pF | |
| Working temperature range | -50 ... +100 °C | |
| Humidity up to | 70 °C, 90 % | |
| Temperature coefficient | ≤ 0.01 dB/K | |
| Static pressure coefficient | 0.00001 dB/Pa | |
| Diameter with protective cap | 7 ± 0.02 mm | |
| Height | 9.7 mm | |
| Weight | 2 g | |
| Thread for preamplifier | 5.7 mm 60 UNS | |
| Thread for protective cap | 6.35 mm 60 UNS | |



Maintenance and servicing

In order to ensure proper functionality, the measuring microphone capsule must be protected from mechanical damage and, depending on the conditions of use, checked on all sides for contamination at intervals to be specified in the operating voltage-free state. After removing the protective cap, the impurities in its interior, as well as on the membrane, should be removed extremely carefully with a soft brush or cloth. The measurement microphone capsule is not suitable for use in chemically aggressive media and conductive dust. Condensation formation must be ruled out.

Polar diagrams



typical pressure frequency response

