

Neumann – KM140



KM140 is a pressure gradient transducer with cardioid characteristics. The frequency curves are very smooth and match 0° sound incidence. Sound from sources within a pickup angle of $\pm 135^\circ$ is reproduced without any coloration.

The KM140 is phantom powered (48 V) and uses transformer less output circuitry. This has several advantages. It features high output capability and extremely low self noise. It provides exceptionally clean sound, free of any coloration. As with traditional transformers, this circuit approach ensures good common mode rejection. The balanced output signal is protected against interference.

The construction is extremely compact. The entire microphone circuitry is on a single hybrid module measuring only 2 cm² in area. It is built into the microphone capsule, therefore the term “active capsules”.

All sensitive components are protected within the capsule. As a result, the quality of the audio signal is never compromised through the use of accessories, for example, when the capsule is detached from the output stage and mounted on a cable or a gooseneck.

Even with a long cable between active capsule and output stage, the signal is immune to external interference

Acoustical operating principle

Directional pattern

Frequency range

Sensitivity at 1 kHz into 1 kohm

Rated impedance

Rated load impedance

Equivalent noise level, CCIR

Equivalent noise level, A-weighted

Signal-to-noise ratio, CCIR (rel. 94 dB SPL)

Signal-to-noise ratio, A-weighted (rel. 94 dB SPL)

Maximum SPL for THD 0.5%

Maximum SPL for THD 0.5% with preattenuation

Maximum output voltage

Dynamic range of the microphone amplifier (A-weighted)

Supply voltage (P48, IEC 61938)

Current consumption (P48, IEC 61938)

Matching connector

Weight

Diameter

Length

Press. grad. transducer

Cardioid

20 Hz ... 20 kHz

15 mV/Pa

50 ohms

1 kohms

25 dB

16 dB-A

69 dB

78 dB

138 dB

148 dB

10 dBu

122 dB

48 V ± 4 V

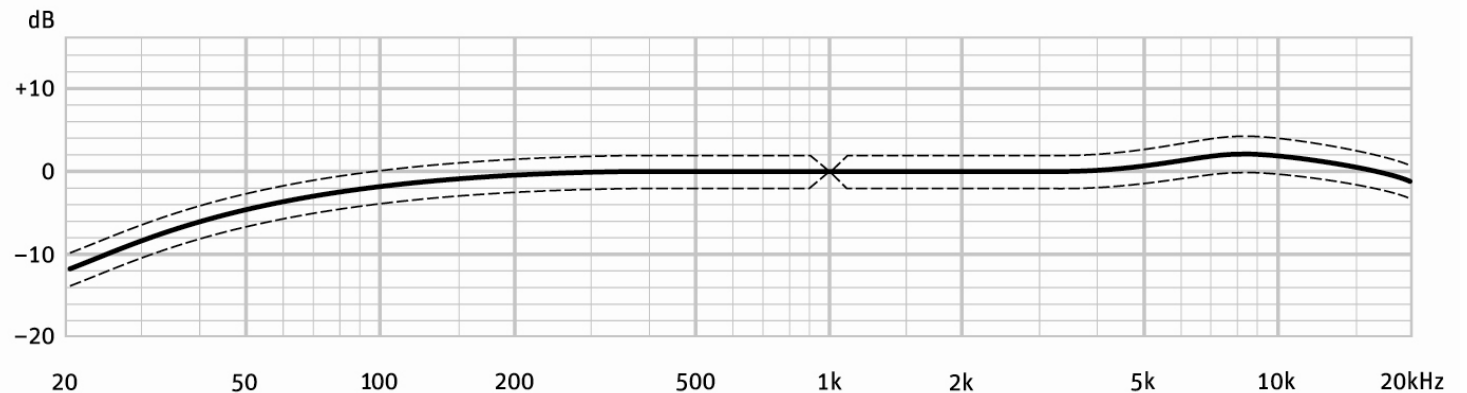
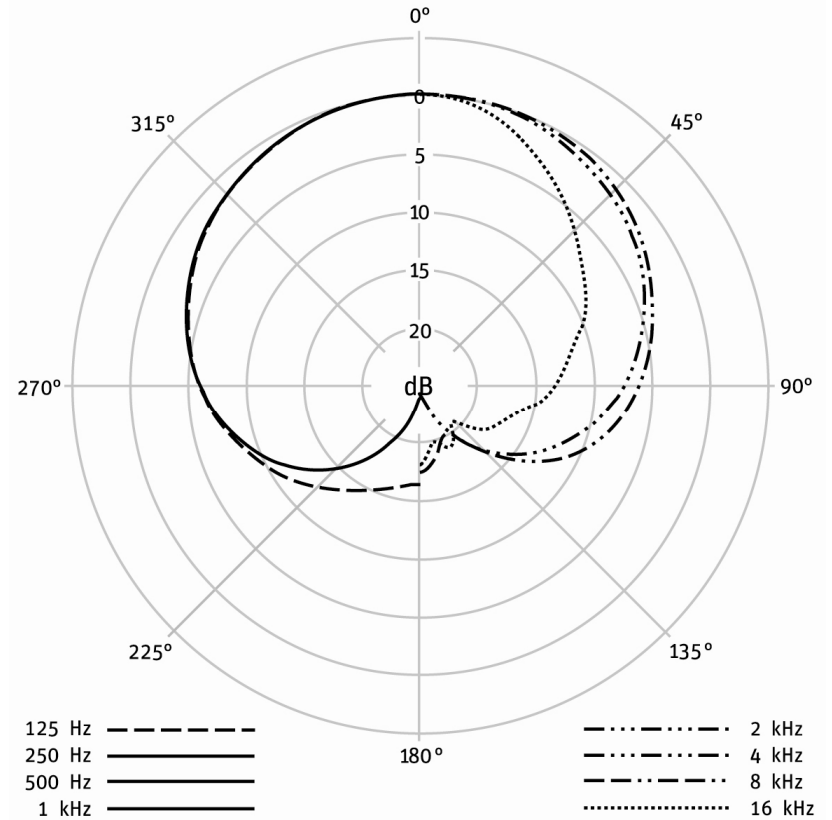
2 mA

XLR3F

80 g

22 mm

92 mm



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