

VIBRATION SENSITIVITY OF KNOWLES MICROPHONES

The approximate determination of the vibration sensitivity of Knowles microphones in terms of the sound pressure that would be required to produce the same microphone output as 1 g of acceleration* at 1000 Hz is:

BT-1751 76 dB SPL

EA-1842 78 dB SPL EK-3024 53 dB SPL

EG-3000 75 dB SPL EM-3046 60 dB SPL

The electrical output of a microphone for excitation with 1 dyne/cm² sound pressure (74 dB SPL) and 1 g of acceleration (980 cm/sec²) is shown in Figures 1 through 5.

* The vibration sensitivity is expressed in these terms because in the middle of the audio frequency range the absolute vibration sensitivity and absolute microphone sensitivity track each other quite closely. In other words, this figure is independent of the individual microphone sensitivity.

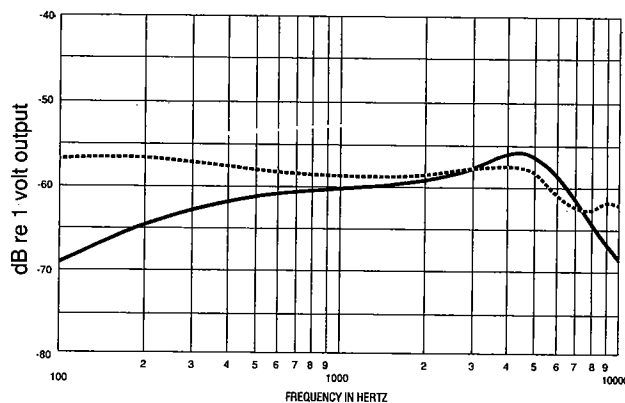
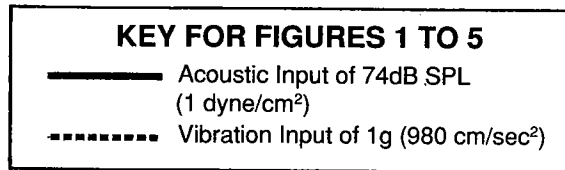


Figure 1 BT-1751

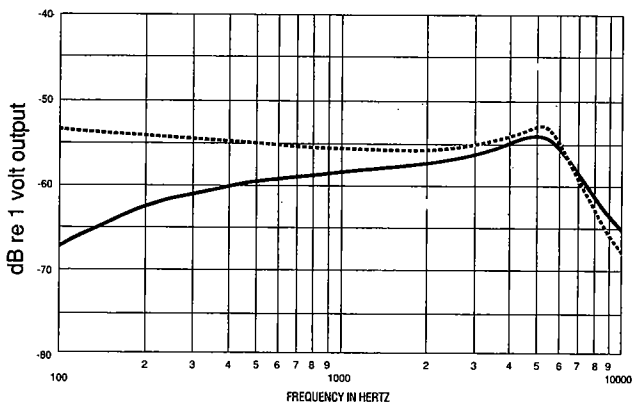


Figure 2 EA-1842

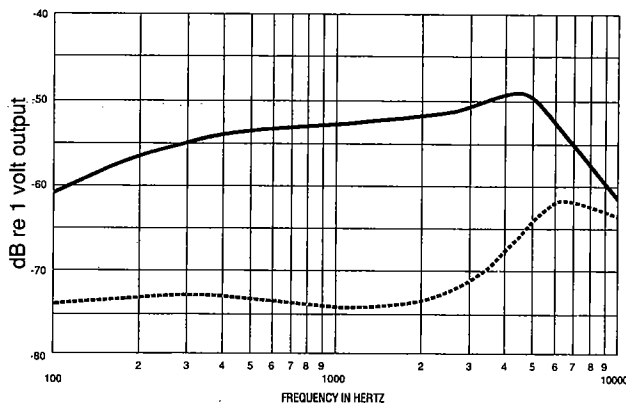


Figure 3 EK-3024



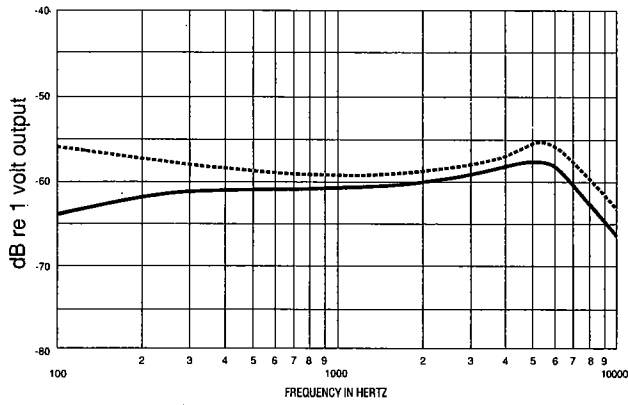


Figure 4 EG-3000

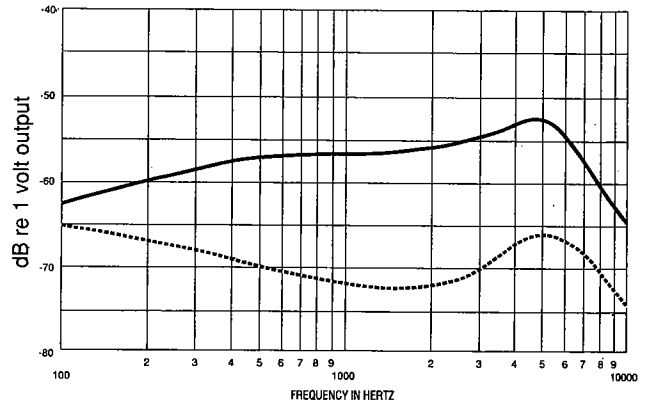


Figure 5 EM-3046