



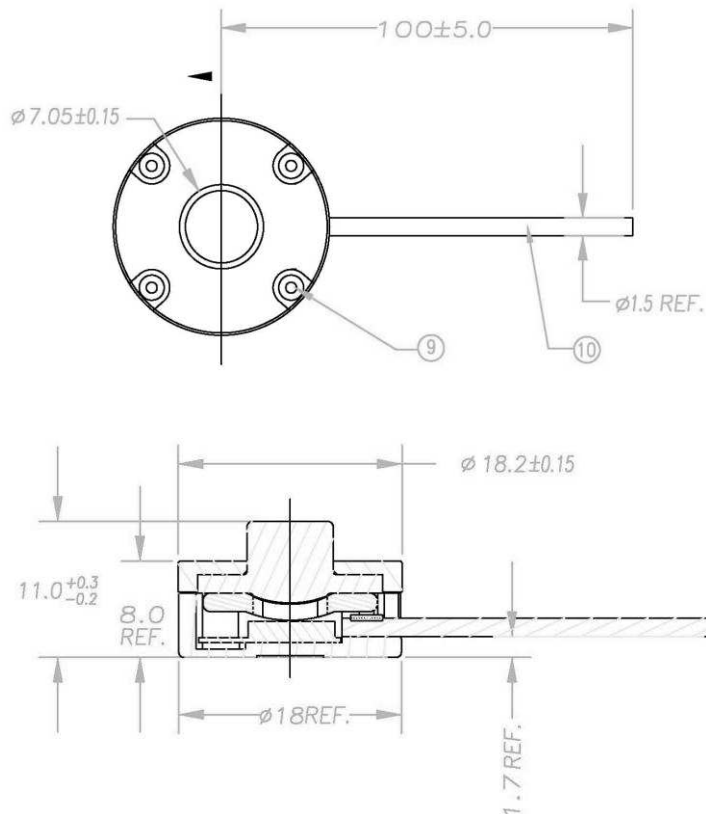
CONTACT MICROPHONE CM-01B

SPECIFICATIONS

- ✦ High Sensitivity
- ✦ Robust
- ✦ Low Noise
- ✦ Piezo Film Technology
- ✦ Shielded Cable

The **CM-01B Contact Microphone** uses sensitive but robust PVDF piezo film combined with a low-noise electronic preamplifier to provide a unique sound or vibration pick-up with buffered output. The design minimizes external acoustic noise while offering extremely high sensitivity to vibration applied to the central rubber pad. The CM-01B is ideal for detecting body sounds.

DIMENSIONS



FEATURES

- ✦ Broad Bandwidth
- ✦ High Sensitivity
- ✦ Excellent Impact Resistance
- ✦ Lightweight
- ✦ Low Cost

APPLICATIONS

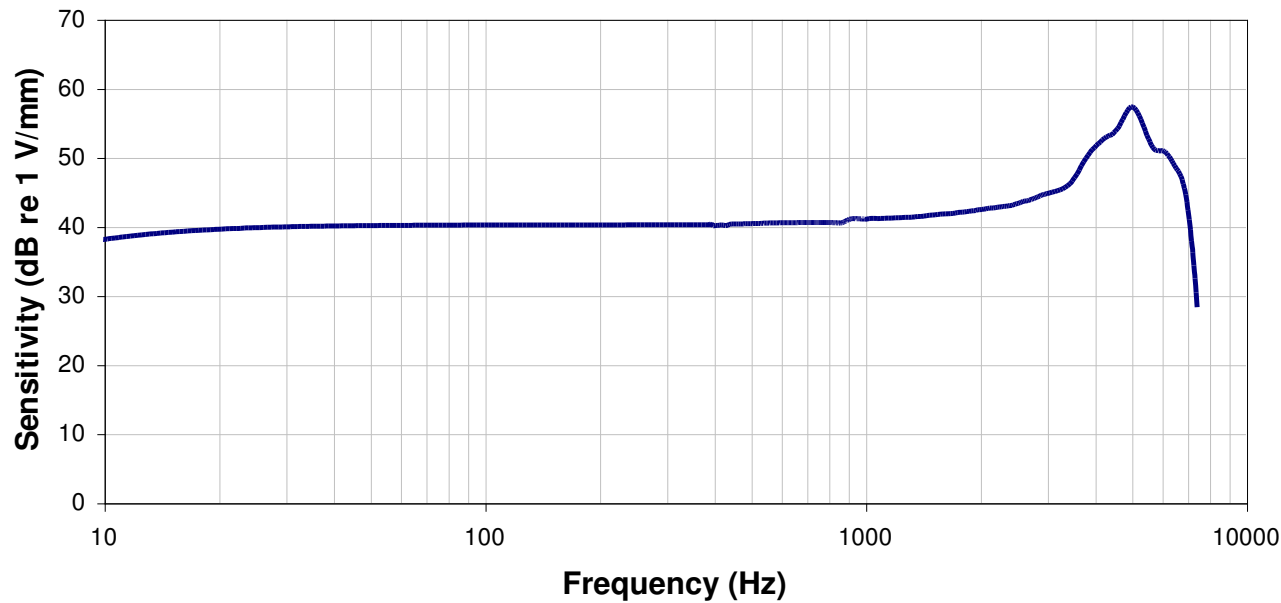
- ✦ Electronic Stethoscope
- ✦ Bone-conducted Sound Pickup
- ✦ General Purpose Contact Microphone
- ✦ Vibration/Impact Sensing

PERFORMANCE SPECIFICATIONS

CHARACTERISTICS	Min	Typ	Max	Units
Sensitivity		40		V/mm
Lower Limiting Frequency (-3 dB)		8		Hz
Upper Limiting Frequency (+3 dB)		2.2		kHz
Resonance Frequency		5		kHz
Spring Constant		20		N/m
Electronic Noise		1		mV _{pk-pk}
Supply Voltage	4	5	30	V-DC
Supply Current		0.1		mA
Operating Temperature	+5		+60	→C
Storage Temperature	-20		+85	→C

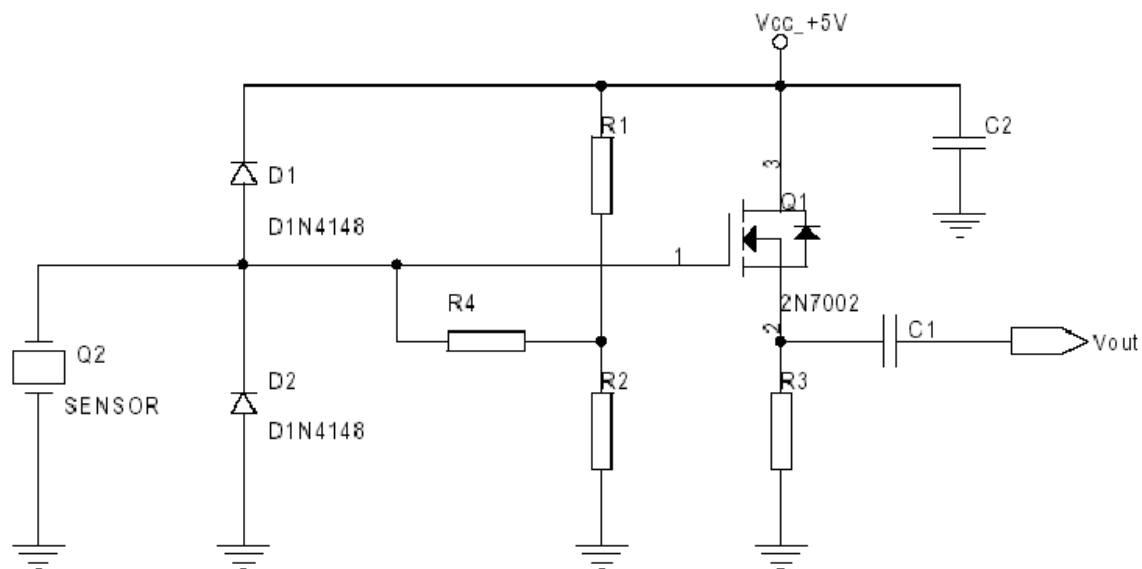
TYPICAL FREQUENCY RESPONSE

Typical Frequency Response



The above plot shows a typical frequency response curve for a device clamped below and subjected to piston-like displacement to the face of the rubber sensing pad.

INTERNAL SCHEMATIC



Shield (braid): GND
Red wire: V_{CC}, +5 V
Yellow wire: V_{out}
R4 = 100 MΩ

C1 = C2 = 0.1 μF
R1 = R2 = 300 KΩ
R3 = 10 KΩ

ORDERING INFORMATION

Model No.	Part No.
CM-01B	1007079-1