



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





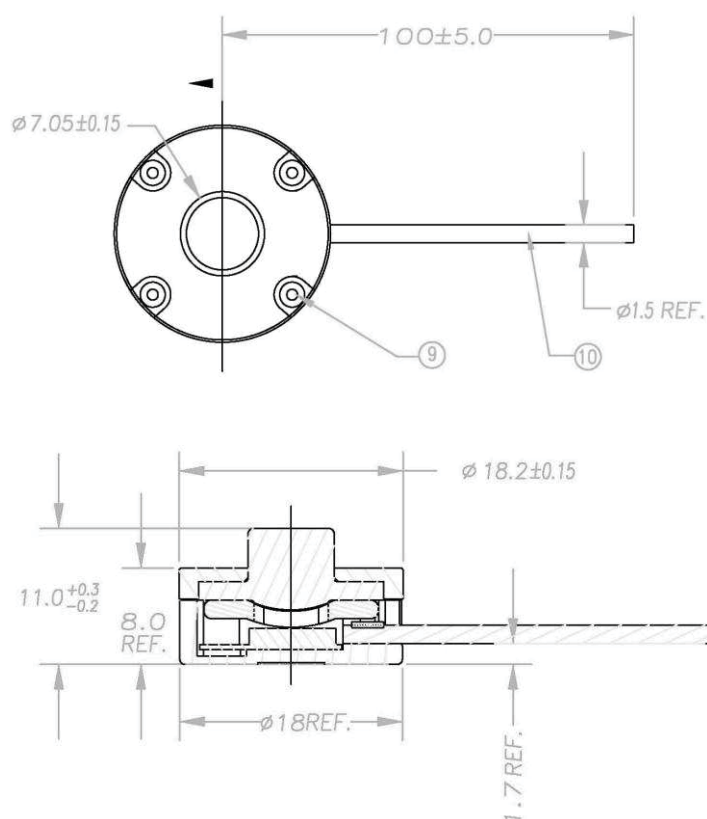
CONTACT MICROPHONE CM-01B

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

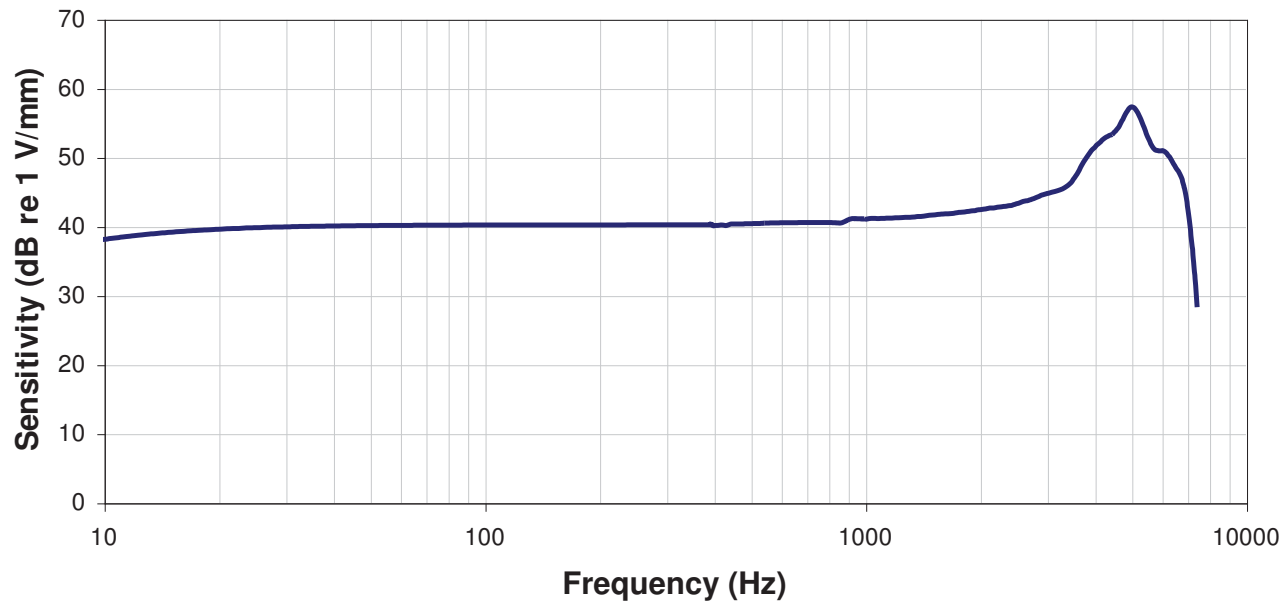
- ✦ Electronic Stethoscope
- ✦ Bone-conducted Sound Pickup
- ✦ General Purpose Contact Microphone
- ✦ Vibration/Impact Sensing

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

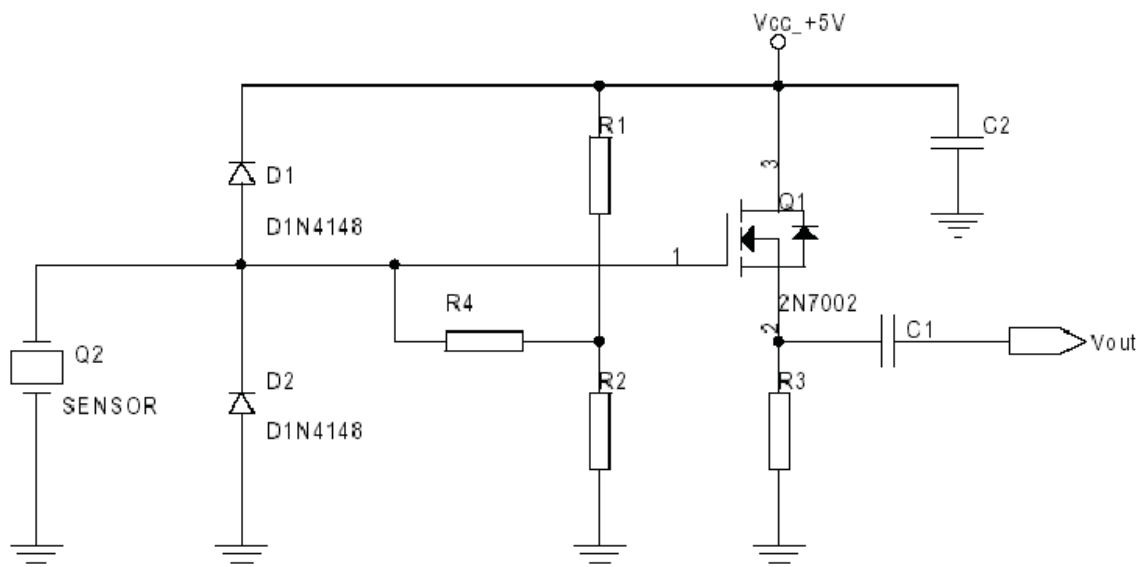
TYPICAL FREQUENCY RESPONSE

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: VCC, +5 V
 Yellow wire: Vout
 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

NORTH AMERICA

Measurement Specialties, Inc.,
 a TE Connectivity Company
 Tel: +1-800-522-6752
 Email: customercare.dtmtd@te.com

EUROPE

MEAS Deutschland GmbH
 a TE Connectivity Company
 Tel: +49-800-440-5100
 Email: customercare.dtmtd@te.com

ASIA

Measurement Specialties (China), Ltd.,
 a TE Connectivity Company
 Tel: +86 0400-820-6015
 Email: customercare.chdu@te.com

TE.com/sensorsolutions

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