

## CM03M-03S42-MA-9

Rev. 0-2022  
RoHS3 & REACH  
Omni Directional Microphones



### Operating Characteristics

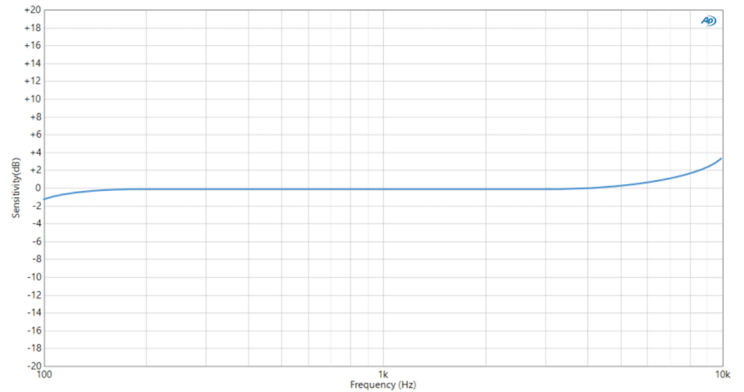
#### ELECTRICAL

Type	Analog
Rated Voltage	2.2 VDC
Operating Voltage	1.5 to 3.6 VDC
Capacitance	N/A
Max Current	0.1 mA
Impedance	300 Ω

#### ACOUSTIC @ 94dB; 1000 Hz; Rated Voltage

Technology	MEMS
Directionality	Omni Directional
Sensitivity	-42 ± 1 dBV/Pa
Power Supply Rejection*	-101 dBV
Acoustic Overload Point	126 dB SPL
Total Harmonic Distortion	0.5% Max
Min S/N	58 dB

\*Tested At 100mVpp 7/8 duty cycle rectangular wave @217Hz, A-Weight, 20kHz BW



### Physical Characteristics

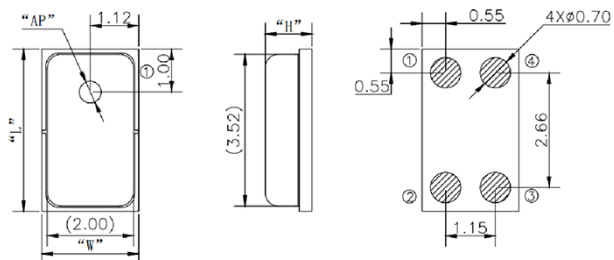
#### MATERIAL

Solder Pads Gold Plated Copper

#### TEMPERATURE RANGES

Operating -40 to +100 °C  
Storage -40 to +100 °C

Weight 0.02 g



Item	Dimension	Tolerance
Length(L)	3.76	±0.10
Width(W)	2.24	±0.10
Height(H)	1.10	±0.10
Acoustic Port (AP)	Ø0.5	±0.05

Pin#	Pin Name	Description
1	VDD	Power Supply
2	GND	GND
3	GND	GND
4	OUTPUT	Output Signal

General tolerance = ±0.1 mm and all measurements in mm unless otherwise noted.

Revision	Description	By	Date
0-2022	Original Specification	CT	2022-09-27

Warranty: For a period of one (1) year from date of shipping under normal operations conditions. This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair.

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