

Tel: 1-800-722-8197 1-631-595-2217 Fax: 1-631-667-5484 EMAIL: sales@challelec.com WEB: www.challengeelectronics.com ISO 9001/14001:2015 Certified

INDICATORS • SPEAKERS • SOUND TRANSDUCERS • ENCLOSURES • MICROPHONES • BATTERY ACCESSORIES

CM03M-03S38-MA-4

Rev. 0-2022 RoHS3 & REACH Omni Directional Microphones



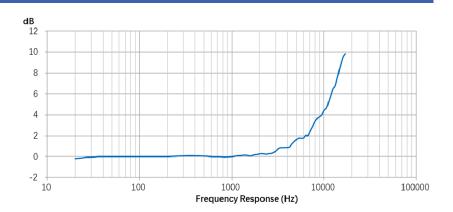
Operating Characteristics

ELECT	RICAL		
	Туре	Analog	
	Rated Voltage	2.2 VDC	
	Operating Voltage	1.5 to 3.6 VDC	
	Capacitance	N/A	

 $\begin{array}{ccc} \text{Max Current} & & \text{0.1 mA} \\ \\ \text{Impedance} & & \text{300 } \Omega \\ \end{array}$

ACOUSTIC @ 94dB; 1000 Hz; Rated Voltage

Technology	MEMS			
Directionality	Omni Directional			
Sensitivity	-38 ± 1 dBV/Pa			
Power Supply Rejection*	-101 dBv			
*Tested At 100mVpp 7/8 duty cycle rectangular wave @217Hz, A-Weight, 20kHz BW				
Acoustic Overload Point	128 dBSPL			
Total Harmonic Distortion	0.5% Max			
Min S/N	65 dB			



Physical Characteristics

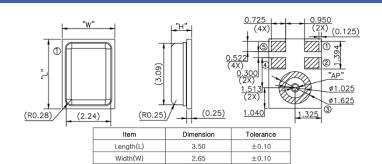
MATERIAL

Solder Pads Gold Plated Copper

TEMPERATURE RANGES

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

Weight 0.02 g



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

0.98

Ø0.325

 ± 0.10

 ± 0.05

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

Height(H)

Acoustic Port (AP)

Revision	Description	Ву	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.

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.