

Universal Testing Type Accelerometer

DETAILS

Charge micro-miniature acceleration sensor, the use of piezoelectric ceramic shear structure, with a wide band frequency response, the sensor has excellent long-term stability and repeatability. The casing is laser welded with titanium alloy, characterized by small size and light weight.

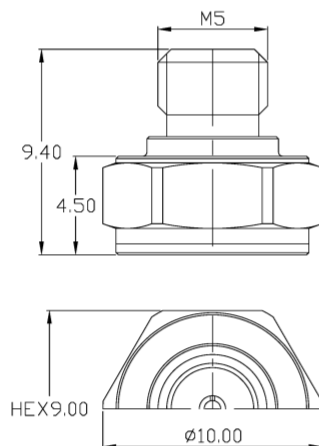
FEATURES

- Charge-type Universal Acceleration Sensor
- Standard series with multiple range options
- Shear structure
- Broadband response

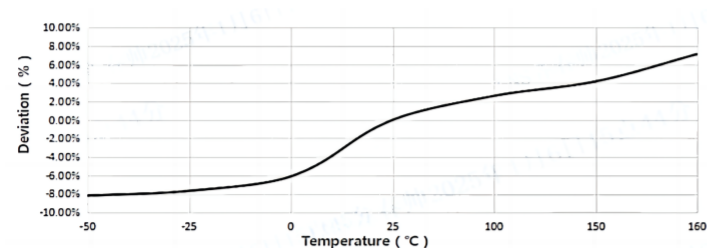
TYPICAL APPLICATIONS

- PC board testing
- ESS
- Vibration measurements in space-constrained areas

Fig_1 Dimensions of C01AM2

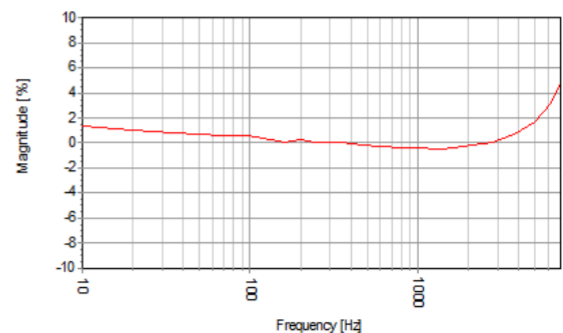


Fig_2 Typical Temperature Response



C01AM2

Fig_3 Typical Frequency Response



Specifications-C01AM2

MODEL NUMBER		UNIT	C01AM2
PERFORMANCE			
Sensitivity ¹		pC/g	4
		pC/(m/s ²)	0.4
Measurement Range		g	±2000
Non-Linearity ³		%	1
Frequency Range	± 5%	Hz	0.5-5k
	±10%		0.3-7k
Resonance Frequency ²		Hz	≥27k
Discharge Time Constant ²		s	-
Transverse Sensitivity		%	≤5
ELECTRICAL			
Capacitance		PF	90
Resistance		Ω	≥1×10 ¹¹
Electrical Isolation		Ω	-
ENVIRONMENTAL			
Sinusoidal Vibration Limit ⁴		g	2500
Shock Limit ⁴		g	3000
Temperature Range	°C		-50~160
	°F		-58~320
Temperature Response ²		%/°C	0.08
PHYSICAL			
Sealing		-	Laser welding IP68
Sensing Element		-	Piezoelectric ceramics
Housing Material		-	Titanium alloy
Size	mm		HEX 9×9.4
	in		HEX 0.354×0.370
Electrical Connector		-	M5 Top (Opt. 10-32)
Mounting Thread		-	Adhesive
Weight ²	g		2
	oz		0.071

Additional Information

Note:

1. @ 160Hz, 1g
2. Typical values
3. JBT 6822-2018 7.12.1 Vibration Testing Method
4. References the mechanical structure of the sensor not being damaged in a non powered state, rather than in a working state

C01AM2

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS



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