

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.

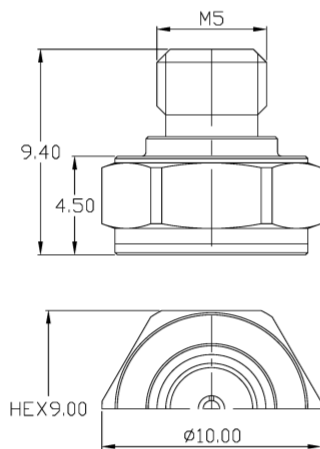
FEATURES

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

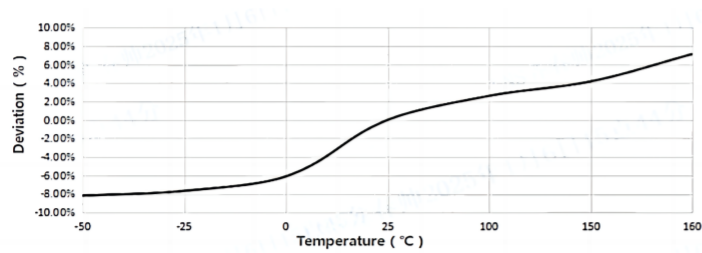
TYPICAL APPLICATIONS

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

Fig_1 Dimensions of C01AM2

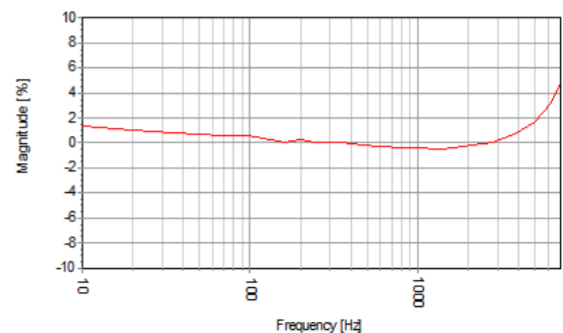


Fig_2 Typical Temperature Response



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:

- @ 160Hz, 1g
- Typical values
- JBT 6822-2018 7.12.1 Vibration Testing Method
- 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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