

Microminiature Accelerometer

DETAILS

BXXAMX series micro-small acceleration sensor built-in micro-small impedance converter, can be vibration process charge signal into a voltage signal, this type of sensor has excellent long-term stability and repeatability. The casing is laser welded with titanium alloy, characterized by small size and light weight.

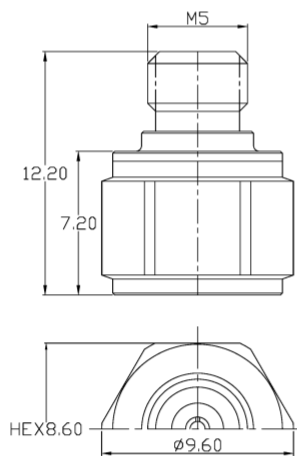
FEATURES

- Built-in micro integrated circuits
- Small size and light weight
- High frequency response characteristics
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TYPICAL APPLICATIONS

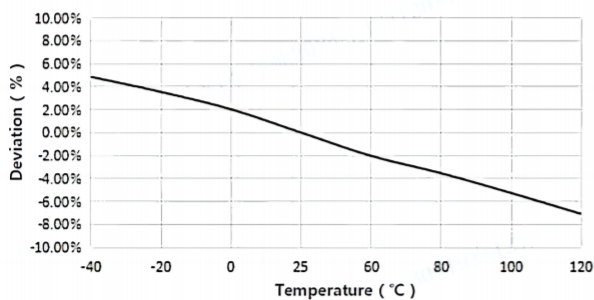
- PC board test
- ESS
- Space-constrained vibration measurements

Fig_1 Dimensions of BXXAMX

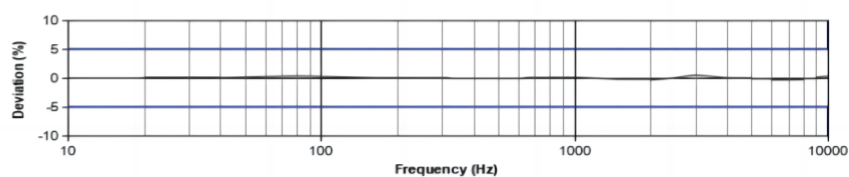


BXXAMX

Fig_2 Typical Temperature Response



Fig_3 Typical Frequency Response



Specifications-BXXAM6

MODEL NUMBER		UNIT	B05AM6	B06AM6
PERFORMANCE				
Sensitivity ¹		mV/g	50	100
		mV/(m/s²)	5	10
Measurement Range		g	±100	±50
Broadband Resolution ²		g rms	0.0002	0.0001
Non-Linearity ³		%	1	
Frequency Range	± 5%	Hz	1-12k	1-10k
	±10%		0.5-14k	0.5-12k
Resonance Frequency ²		Hz	≥40k	≥38k
Discharge Time Constant ²		s	≤1	
Transverse Sensitivity		%	≤5	
ELECTRICAL				
Excitation Voltage		VDC	20-30	
Constant Current Excitation		mA	2-20	
Output Impedance		Ω	≤100	
Output Bias Voltage		V	8-12	
Electrical Isolation		Ω	-	
Spectral Noise ²	10Hz	μg/√Hz	30	15
	100Hz		8	4
	1000Hz		4	2
ENVIRONMENTAL				
Sinusoidal Vibration Limit ⁴		g rms	800	400
Shock Limit ⁴		g pk	2000	1000
Temperature Range		°C	-50~120	
		°F	-58~248	
Temperature Response ²		%/°C	-0.07	
PHYSICAL				
Sealing		-	Laser welding IP68	
Sensing Element		-	Piezoelectric ceramics	
Housing Material		-	Titanium Alloy	
Size	mm		HEX 8.60×12.20	
	in		HEX 0.339×0.480	
Electrical Connector		-	M5 Top (Opt. 10-32)	
Mounting Thread		-	Adhesive	
Weight ²	g		2.1	2.5
	oz		0.074	0.088
TEDS Optional ⁵		-	No	

Additional Information

Note:

1. @ 160Hz, 24VDC, 4mA conditions
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
5. Some products may have changes in size after adding TEDS

BXXAM6

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS



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