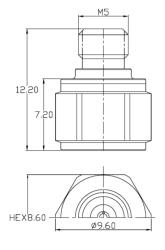


Microminiature Accelerometer

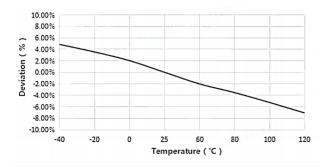
DETAILS

BXXAMX series micro-small acceleration sensor builtin 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.

Fig_1 Dimensions of BXXAMX



Fig_2 Typical Temperature Response



FEATURES

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

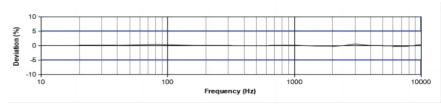
TYPICAL APPLICATIONS

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



BXXAMX

Fig_3 Typical Frequency Response





Specifications-BXXAM6

MODEL NUMBER		UNIT	B05AM6	B06AM6
PERFORMA	NCE			
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)	11-	1-12k	1-10k
	±10%(Hz)	Hz —	0.5-14k	0.5-12k
Resonance Fre	equency ²	Hz	≥40k	≥38k
Discharge Time Constant ²		S	\$ 1	
Transverse Sensitivity		%	≤5	
ELECTRICA	L			
Excitation Voltage		VDC	20-30	
Constant Current Excitation		mA	2-20	
Output Impedance		Ω	≤100	
Output Bias Voltage		V	8-12	
Electrical Isolat	tion	Ω	-	
Spectral Noise ²			30	15
		μg/√Hz	8	4
			4	2
ENVIRONM	ENTAL			
Sinusoidal Vibration Limit ⁴		g	800	400
Shock Limit ⁴		g	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)	
Electrical Conr	nector	-		
Electrical Conr Mounting Thre		-	Adhe	sive
			Adhe	sive 2.5

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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