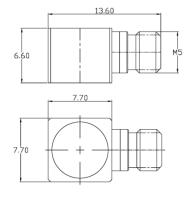


Microminiature Accelerometer

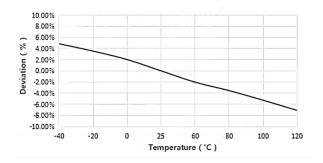
DETAILS

BXXBMX 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 BXXBM6



Fig_2 Typical Temperature Response



FEATURES

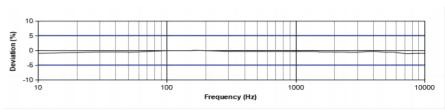
- · Built-in micro integrated circuits
- · Small size and light weight
- · High frequency response characteristics

TYPICAL APPLICATIONS

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



Fig_3 Typical Frequency Response





Specifications-BXXBM6

MODEL NUMBER		UNIT	B05BM6	B06BM6
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	quency ²	Hz	≥40k	≥38k
Discharge Time Constant ²		S	<u> </u>	
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 Isolat	ion	Ω	-	
Spectral Noise ²			30	15
		µg/√Hz	8	4
			4	2
ENVIRONMI	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	7.70×7.70×6.60	8.50×8.50×6.60
		in	0.303×0.303×0.260	0.335×0.335×0.260
Electrical Connector		-	M5 Side (Opt. 10-32)	
Mounting Thread		-	Adhesive	
Weight ²		g	2.1	2.7
		OZ	0.074	0.095
TEDS Optional	5	-	 N	b

Additional Information

Note:

- 1. @ 160Hz, 24VDC, 4mA conditions
- 2. Typical values
- 3. 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
 Some products may have changes in size after adding TEDS

BXXBM6

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS









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