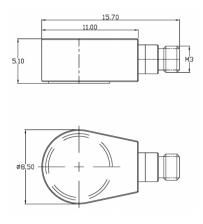


Universal Testing Type Accelerometer

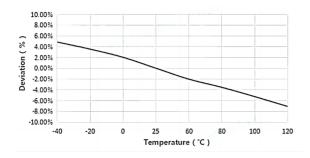
DETAILS

The BXXBMX series of microminiature acceleration sensors have a built-in microminiature impedance converter that converts the charge signal during vibration into a voltage signal, and this model 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 BXXBMX



Fig_2 Typical Temperature Response



FEATURES

- · IEPE Universal Acceleration Sensor
- ·Standard series with multiple range options
- · Shear structure
- · Broadband response

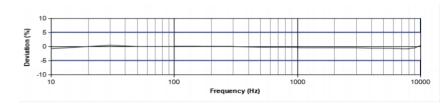
TYPICAL APPLICATIONS

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



BXXBMX

Fig_3 Typical Frequency Response





Specifications-BXXBMX

MODEL NUMBER		UNIT	B01BM1	B05BM1	B06BM1
PERFORMA	NCE				
Sensitivity ¹		mV/g	5	50	100
		mV/(m/s²)	0.5	5	10
Measurement Range		g	±1000	±100	±50
Broadband Resolution ²		g rms	0.002	0.0002	0.0001
Non-Linearity	3	%	1		
Frequency	± 5%(Hz)	11-	3-10k	1-10k	1-10k
Range	±10%(Hz)	Hz –	2-12k	0.5-11k	0.5-11k
Resonance Frequency ²		Hz	≥65k	≥38k	≥37k
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 Isola	tion	Ω	-		
Spectral Noise ²			300	30	15
		µg/√Hz	80	8	4
			40	4	2
ENVIRONM	ENTAL				
Sinusoidal Vibration Limit ⁴		g	2500	800	400
Shock Limit ⁴			4000	2000	1000
Toward and the Day of		g	6000	2000	1000
T		°C	6000	-50~120	1000
Temperature F	Range		6000		1000
Temperature F		°C		-50~120	-0.1
		°C °F		-50~120 -58~248	
Temperature F		°C °F		-50~120 -58~248	
Temperature F	Response ²	°C		-50~120 -58~248	
Temperature F PHYSICAL Sealing	Response ²	°C °F %/°C		-50~120 -58~248 .07 Laser welding IP68	
Temperature F PHYSICAL Sealing Sensing Eleme Housing Mater	Response ²	°C °F %/°C		-50~120 -58~248 .07 Laser welding IP68 Piezoelectric ceramics	
Temperature F PHYSICAL Sealing Sensing Element	Response ²	°C °F %/°C		-50~120 -58~248 .07 Laser welding IP68 Piezoelectric ceramics Titanium Alloy	
Temperature F PHYSICAL Sealing Sensing Eleme Housing Mater	Response ²	°C °F %/°C mm		-50~120 -58~248 .07 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 15.7×8.5×5.1	
Temperature F PHYSICAL Sealing Sensing Eleme Housing Mater Size	Response ² ent rial	°C °F %/°C mm in		-50~120 -58~248 .07 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 15.7×8.5×5.1 0.618×0.335×0.201	
Temperature F PHYSICAL Sealing Sensing Eleme Housing Mater Size Electrical Conf	Response ² ent rial	°C °F %/°C mm in		-50~120 -58~248 .07 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 15.7×8.5×5.1 0.618×0.335×0.201 M3 Side	

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

BXXBMX

Supplied Accessories:

- Product Verification Report
- Install Screws

COMPLIANCE WITH STANDARDS









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