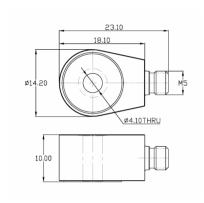


Modal Test Type Accelerometer

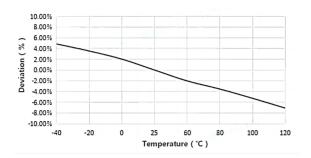
DETAILS

BXXB10 series micro-miniature acceleration sensor built-in micro-miniature impedance converter, can be vibration process charge signal into a voltage signal, the model has excellent long-term stability and repeatability. The casing is laser welded with titanium alloy, small size and light weight, etc. This series of products have a center through-hole for 360° mounting.

Fig_1 Dimensions of BXXB10



Fig_2 Typical Temperature Response



FEATURES

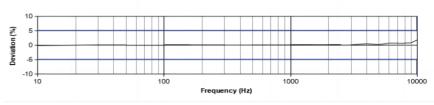
- · High frequency response characteristics
- ·Small size and light weight
- ·360° mounting

TYPICAL APPLICATIONS

- · Modal analysis
- · Vibration control
- · Generalized vibration measurement



Fig_3 Typical Frequency Response





Specifications-BXXB10

MODEL NUMBER		UNIT	B02B10	B03B10	B05B10	B06B10
PERFORMAI	NCE					
Sensitivity ¹		mV/g	10(±10%)	20	50	100
		mV/(m/s²)	1	2	5	10
Measurement Range		g	±500	±250	±100	±50
Broadband Resolution ²		g rms	0.001	0.0005	0.0002	0.0001
Non-Linearity ³		%			1	
Frequency Range	± 5%(Hz)	Hz	1-10k	1-10k	1-10k	1-7k
	±10%(Hz)	112	0.5-12k	0.5-12k	0.5-12k	0.5-10k
Resonance Frequency ²		Hz	≥40k	≥40	≥40	≥38
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 Isolation		Ω				
Spectral Noise ²		µg/√Hz	150	75	30	15
			40	20	8	4
			20	10	4	2
ENVIRONME	NTAL					
Sinusoidal Vibration Limit ⁴		g	2200	2000	800	400
Shock Limit ⁴		g	5500	5000	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	18.10×14.20×10.00			
		in	0.713×0.559×0.394			
Electrical Connector		-	M5 Side			
Mounting Thread		-	φ4.1 THRU			
Weight ²		g	6	6	6.5	8
		OZ	0.212	0.212	0.229	0.282
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

BXXB10

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS









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