

Universal Testing Type Accelerometer

DETAILS

Model B02B04 B06B05 acceleration sensor is a standard sensor with piezoelectric ceramic shear structure, featuring wide band frequency response, low transverse sensitivity, and low thermal transient correspondence. Internal with high temperature low impedance circuit, low noise, better sensitivity temperature response and other characteristics. The housing is laser welded stainless steel with high sealing grade and strength, and the upper and lower mounting surfaces are each equipped with M5 mounting threads.

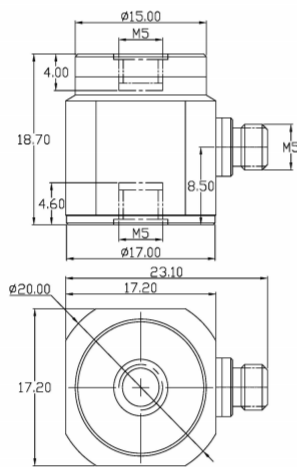
FEATURES

- Wide bandwidth frequency response
- Low lateral sensitivity
- Shear structure
- Good yearly stability

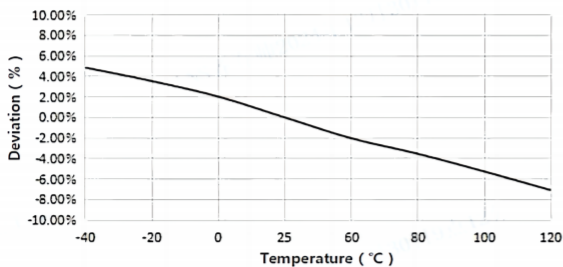
TYPICAL APPLICATIONS

- Sensor Calibration
- Standardized bench test

Fig_1 Dimensions of B02B04 B06B05

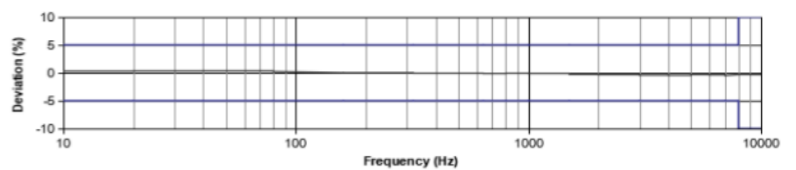


Fig_2 Typical Temperature Response



B02B04
B06B05

Fig_3 Typical Frequency Response



Specifications-B0XB0X

MODEL NUMBER	UNIT	B02B04	B06B05
PERFORMANCE			
Sensitivity(±10%) ¹	mV/g	10	100
	mV/(m/s ²)	1	10
Measurement Range	g	±500	±50
Broadband Resolution ²	g rms	0.001	0.0001
Non-Linearity ³	%	1	
Frequency Range	± 2%	1-8k	1-8k
	± 5%	0.5-10k	0.5-10k
Resonance Frequency ²	Hz	≥50k	≥40k
Discharge Time Constant ²	s	≤1	
Transverse Sensitivity	%	≤2	
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	60	6
		24	2.4
		16	1.6
ENVIRONMENTAL			
Sinusoidal Vibration Limit ⁴	g	3000	400
Shock Limit ⁴	g	8000	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	-	Stainless steel	
Size	mm	17.2×17.2×18.7	
	in	0.677×0.677×0.736	
Electrical Connector	-	M5 Side (Opt. 10-32)	
Mounting Thread	-	M5 (Opt. 10-32)	
Weight ²	g	31.5	34
	oz	1.111	1.199
TEDS Optional ⁵	-	No	

Additional Information

Note:

- @ 160Hz, 1g
- Typical values
- 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

BXXB01

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

- A: 10-32 Output Connector
- E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS



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