

Single Axis Modal Testing Type Accelerometer

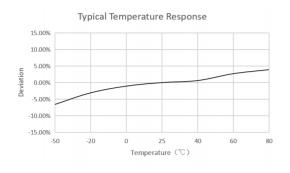
DETAILS

The BXXBG3 series of micro-miniature accelerometers have built-in impedance converters that can convert charge signals during vibration into voltage signals. These sensors have excellent long-term stabilty and repeatability. The casing is made of titanium alloy and laser welded, and is small and lightweight. This series of products has a central through-hole that can be installed at 360°, and the bottom is equipped with an integrated insulation structure that can be insulated from the ground through included installation accessories.

Fig_1 Dimensions of BXXBG3

10.00 HS 18.70 5.00

Fig_2 Typical Temperature Response



FEATURES

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

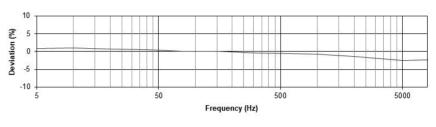
TYPICAL APPLICATIONS

- · Modal analysis
- · Vibration control
- · General purpose NVH



BXXBG3

Fig_3 Typical Frequency Response





Specifications-BXXBG3

ER	UNIT	B06BG3	B10BG3
E			
Sensitivity ¹	mV/g	50	1000
	mV/(m/s²)	5	100
ge	g	±50	±5
ion ²	g rms	0.0001	0.00001
	%	1	
± 5%	Ц	1-7k	1-8k
0%		0.5-10k	0.5-10k
ncy ²	Hz	≥40k	≥40k
onstant ²	S	≤ 1	
ity	%	≤,	5
	VDC	20-30	
xcitation	mA	2-20	
	Ω	≤100	
е	V	8-12	
	Ω	≥1×10 ⁸	
Spectral Noise ² 100Hz 1000Hz		25	5
	µg/√Hz	7	1.6
	1	5	1.2
AL			
n Limit ⁴	g rms	400	3000
	g pk	1000	5000
Temperature Range	°C	-50~120	-50~80
	°F	-58~248	-58~176
onse ²	-	See typical curve	
	-	Laser welding IP68	
	-	Piezoelectric ceramics	
	-	Titanium Alloy	
Size	mm	23.7×15.4×10	
	in	0.933×0.606×0.394	
or	-	M5 Side (Opt. 10-32)	
	-	Ф3.1 Through Hole / М3	
Weight ²	g	10	11
	ncy ² constant	mW/g mV/(m/s²) ge g g g mV/(m/s²) ge g g ms mV/(m/s²) mv/(m/s²) ge g g ms mv/(ms²) mv/(ms²)	mV/g 50 mV/(m/s²) 5 ge g ±50 stion ² g rms 0.0001 % 1-7k 0% 0.5-10k ncy ² Hz >40k snstant ² s ≤ vity % vity % ≤ vity

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

BXXBG3

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONALVERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS







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