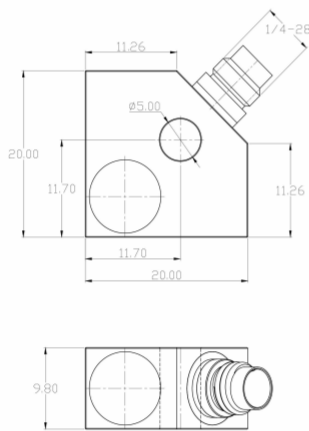


## Universal Testing Type Accelerometer

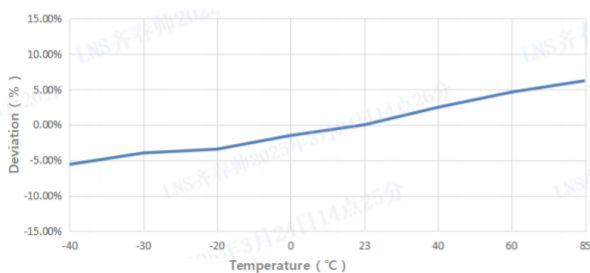
### DETAILS

B06YG6 triaxial acceleration sensor, using piezoelectric ceramic shear structure, with a wide band frequency response, high-quality piezoelectric ceramic with long-term stability can ensure years of accurate measurement. Built-in low impedance circuit, low noise, better sensitivity temperature response and other characteristics. The shell is made of titanium alloy with less density and laser welding. Double-layer shielding structure, anti-interference ability is stronger.

**Fig\_1** Dimensions of B06YG6



**Fig\_2** Typical Temperature Response



### FEATURES

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

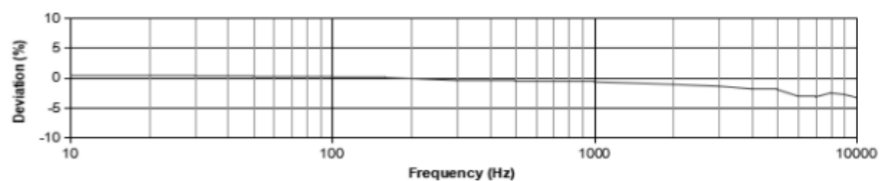
### TYPICAL APPLICATIONS

- HASS/HALT
- Automotive NVH testing
- General vibration monitoring
- General 3-axis vibration measurement



B06YG6

**Fig\_3** Typical Frequency Response



## Specifications-B06YG6

MODEL NUMBER		UNIT	B06YG6
PERFORMANCE			
Sensitivity <sup>1</sup>		mV/g	100
		mV/(m/s²)	10
Measurement Range		g	±50
Broadband Resolution <sup>2</sup>		g rms	0.001
Non-Linearity <sup>3</sup>		%	1
Frequency Range	± 5%(Hz)	Hz	1-10k
	±10%(Hz)		0.5-11k
Resonance Frequency <sup>2</sup>		Hz	XY:30k Z:50k
Discharge Time Constant <sup>2</sup>		s	≤1
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	≥1×10 <sup>8</sup>
Spectral Noise <sup>2</sup>		μg/√Hz	10Hz: 15
			100Hz: 4
			1000Hz: 2
ENVIRONMENTAL			
Sinusoidal Vibration Limit <sup>4</sup>		g	800
Shock Limit <sup>4</sup>		g	2000
Temperature Range		°C	-40~85
		°F	-40~185
Temperature Response <sup>2</sup>		%/°C	0.1
PHYSICAL			
Sealing		-	Laser welding IP68
Sensing Element		-	Piezoelectric ceramics
Housing Material		-	Titanium Alloy
Size	mm		20×20×9.8
	in		0.787×0.787×0.386
Electrical Connector		-	1/4-28 4-pin
Mounting Thread		-	φ5.0 THRU
Weight <sup>2</sup>	g		15
	oz		0.529
TEDS Optional <sup>5</sup>		-	Yes

## 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

### B06YG6

Supplied Accessories:

- Product Verification Report
- Install Screws

### OPTIONAL VERSIONS

#### COMPLIANCE WITH STANDARDS



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