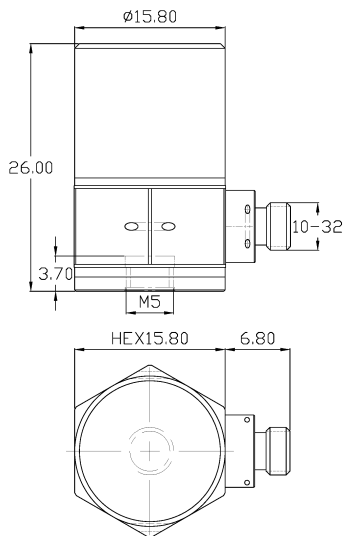


## Universal Testing Type Accelerometer

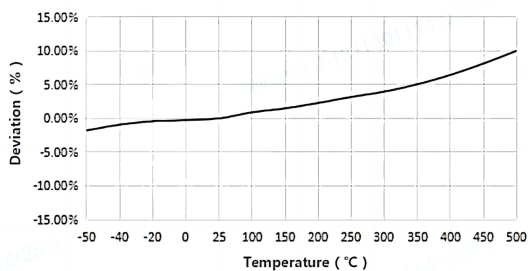
### DETAILS

CXXBT2 series charge high temperature acceleration sensor, the use of ultra-high temperature piezoelectric ceramics, with ultra-low sensitivity temperature response and high impedance at high temperatures, the maximum operating temperature of 500 °C. The shell is sealed by laser welding of nickel-based alloy with good airtightness, special coaxial 10-32 connector, signal ground and shell isolation, can be equipped with domestic and foreign high-temperature metal cables, the bottom is equipped with M5 mounting holes.

**Fig\_1** Dimensions of CXXBT2



**Fig\_2** Typical Temperature Response



### FEATURES

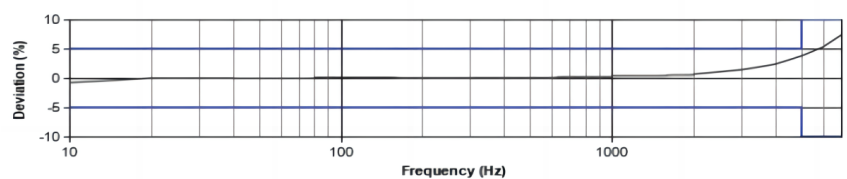
- Designed for high temperature test environments
- Maximum operating temperature up to 500°C, ultra-low sensitivity temperature coefficient
- Special high temperature resistant metal shell, special high temperature resistant piezoelectric material, low temperature bleaching

### TYPICAL APPLICATIONS

- Automobile engine test
- High temperature industrial vibration monitoring
- Vibration measurement of high temperature turbines



**Fig\_3** Typical Frequency Response



## Specifications-CXXBT2

MODEL NUMBER	UNIT	C01BT2	C02BT2
<b>PERFORMANCE</b>			
Sensitivity <sup>1</sup>	pC/g	5	10
	pC/(m/s <sup>2</sup> )	0.5	1
Broadband Resolution <sup>2</sup>	g	±1000	±800
Non-Linearity <sup>3</sup>	%	1	
Frequency Range	± 5%	10-4k	10-5k
	±10%	1-6k	1-7k
Resonance Frequency <sup>2</sup>	Hz	≥30k	≥25k
Discharge Time Constant <sup>2</sup>	s	-	
Transverse Sensitivity	%	≤5	
<b>ELECTRICAL</b>			
Capacitance	PF	300	550
Resistance	Ω	≥1×10 <sup>9</sup>	≥1×10 <sup>9</sup>
Electrical Isolation	Ω	≥1×10 <sup>8</sup>	≥1×10 <sup>8</sup>
<b>ENVIRONMENTAL</b>			
Sinusoidal Vibration Limit <sup>4</sup>	g	1500	1000
Shock Limit <sup>4</sup>	g	2000	1500
Temperature Range	°C	-50-500	
	°F	-122-932	
Temperature Response <sup>2</sup>	%/°C	0.02	
<b>PHYSICAL</b>			
Sealing	-	Laser welding IP68	
Sensing Element	-	Piezoelectric ceramics	
Housing Material	-	Nickel-based alloy	
Size	mm	HEX 15.8×26	
	in	HEX 0.622×1.024	
Electrical Connector	-	10-32 Side	
Mounting Thread	-	M5	
Weight <sup>2</sup>	g	28	
	oz	0.988	

## Additional Information

### Note:

- @ 160Hz, 24VDC, 4mA conditions
- 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

### CXXBT2

Supplied Accessories:

- Product Verification Report
- Install Screws

### OPTIONALVERSIONS

-E: 10-32 Mounting Threads

### COMPLIANCE WITH STANDARDS



### LNS Intelligent Technology Co., Ltd

NO.3 Building  
Qilu High-Tech District, Qihe,Dezhou  
Shandong Province, China 251100  
+86-0534-2150417

International:

9620 NE Tanasbourne Dr Ste 300  
Hillsboro, OR, USA 97124  
+1-503-208-5512  
info@lnsdynamics.com