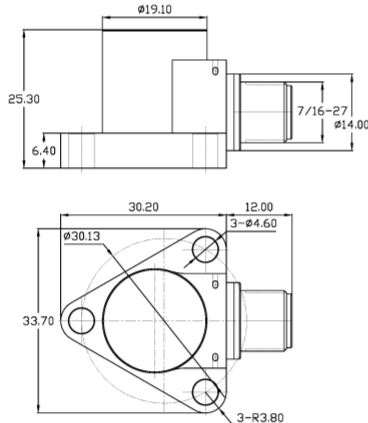


## Universal Testing Type Accelerometer

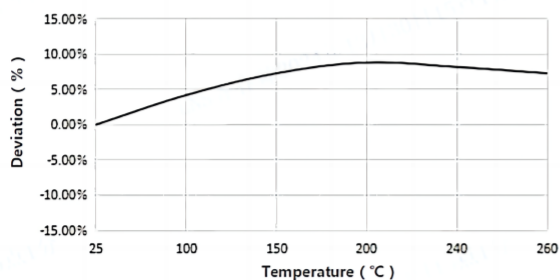
### DETAILS

CXXBT4 series charge high temperature acceleration sensor, using ultra-high temperature piezoelectric ceramics, ultra-low sensitivity temperature response and high impedance at high temperatures, the maximum operating temperature of 260°C. The shell adopts nickel-based alloy laser welding seal with good air tightness, industry standard 7/16-27 two-core nozzle output, signal ground and shell isolation differential output, can be equipped with domestic and foreign high temperature metal cables, the bottom with standard 3×φ4 through holes

**Fig\_1** Dimensions of CXXBT4



**Fig\_2** Typical Temperature Response



### FEATURES

- Maximum operating temperature of 260°C, ultra-low sensitivity temperature coefficient
- Special high temperature resistant metal shell, special high temperature resistant piezoelectric material, low temperature bleaching

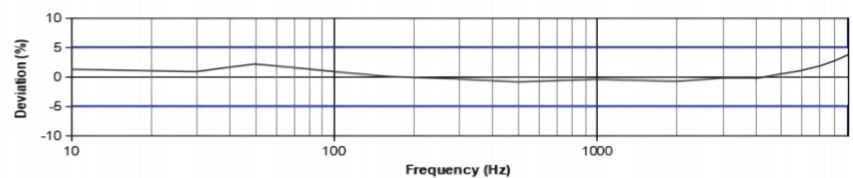
### TYPICAL APPLICATIONS

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



CXXBT4

**Fig\_3** Typical Frequency Response



## Specifications-CXXBT4

MODEL NUMBER		UNIT	C02BT4	C03BT4	C05BT4
<b>PERFORMANCE</b>					
Sensitivity <sup>1</sup>		pC/g	10	20	50
		pC/(m/s <sup>2</sup> )	1	2	5
Measurement Range		g	±1500	±1000	±500
Non-Linearity <sup>3</sup>		%	1		
Frequency Range	± 5%	Hz	1-10k	1-9k	1-6k
	±10%		1-11k	1-11k	1-9k
Resonance Frequency <sup>2</sup>		Hz	≥50k	≥40k	≥28k
Discharge Time Constant <sup>2</sup>		s	-		
Transverse Sensitivity		%	≤5		
<b>ELECTRICAL</b>					
Capacitance		PF	1250	1300	3000
Resistance		Ω	≥1×10 <sup>10</sup>	≥1×10 <sup>10</sup>	≥1×10 <sup>10</sup>
Electrical Isolation		Ω	≥1×10 <sup>8</sup>	≥1×10 <sup>8</sup>	≥1×10 <sup>8</sup>
<b>ENVIRONMENTAL</b>					
Sinusoidal Vibration Limit <sup>4</sup>		g	3000	2500	1000
Shock Limit <sup>4</sup>		g	4000	3000	2000
Temperature Range		°C	-50~260		
		°F	-58~500		
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		33.7×30.2×25.3	33.7×30.2×25.3	33.7×30.2×25.3
	in		1.327×1.189×0.996	1.327×1.189×0.996	1.327×1.189×0.996
Electrical Connector		-	7/16-27 2-pin		
Mounting Thread		-	M4 x 3 THRU		
Weight <sup>2</sup>	g		61.1	62	91
	oz		2.155	2.187	3.210

## 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

### CXXBT4

Supplied Accessories:

- Product Verification Report
- Install Screws

### COMPLIANCE WITH STANDARDS



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