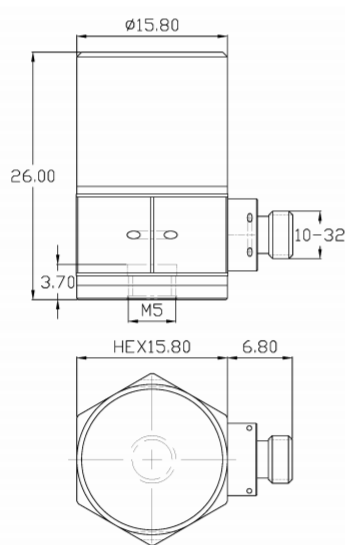


Universal Testing Type Accelerometer

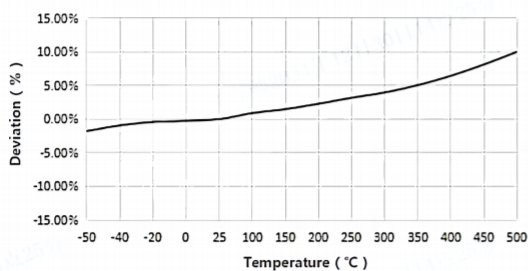
DETAILS

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

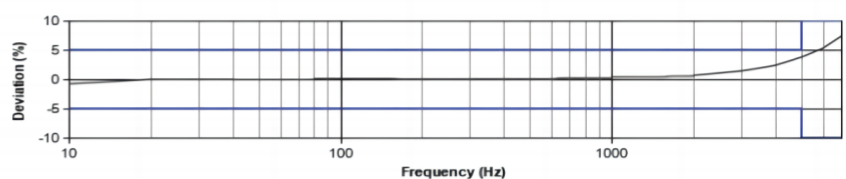
TYPICAL APPLICATIONS

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



CXXBT2

Fig_3 Typical Frequency Response



Specifications-CXXBT2

MODEL NUMBER		UNIT	C01BT2	C02BT2
PERFORMANCE				
Sensitivity ¹		pC/g	5	10
		pC/(m/s²)	0.5	1
Measurement Range		g	±1000	±800
Non-Linearity ³		%	1	
Frequency Range	± 5%	Hz	10-4k	10-5k
	±10%		1-6k	1-7k
Resonance Frequency ²		Hz	≥30k	≥25k
Discharge Time Constant ²		s	-	
Transverse Sensitivity		%	≤5	
ELECTRICAL				
Capacitance		PF	300	550
Resistance		Ω	≥1×10 ⁹	≥1×10 ⁹
Electrical Isolation		Ω	≥1×10 ⁸	≥1×10 ⁸
ENVIRONMENTAL				
Sinusoidal Vibration Limit ⁴		g	1500	1000
Shock Limit ⁴		g	2000	1500
Temperature Range		°C	-50~500	
		°F	-58~932	
Temperature Response ²		%/°C	0.02	
PHYSICAL				
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 (Opt. 10-32)	
Weight ²	g	28		
	oz	0.988		

Additional Information

Note:

1. @ 160Hz, 1g
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

CXXBT2

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS



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