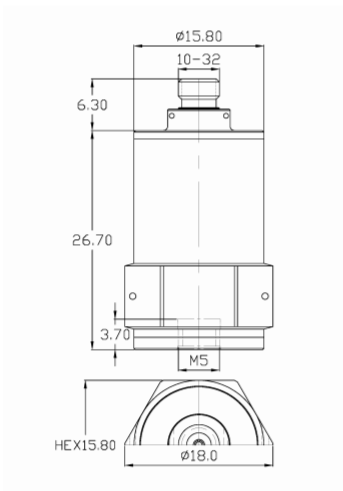


Universal Testing Type Accelerometer

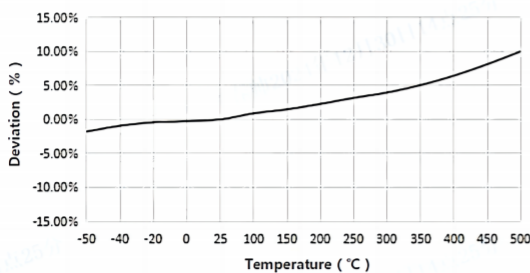
DETAILS

CXXAT2 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 CXXAT2



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

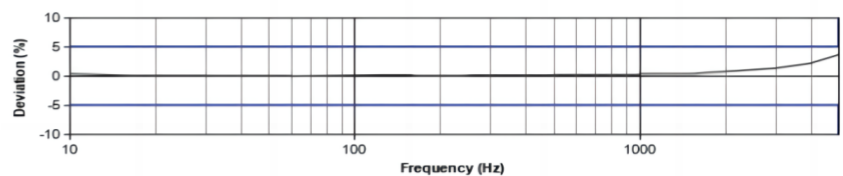
TYPICAL APPLICATIONS

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



CXXAT2

Fig_3 Typical Frequency Response



Specifications-CXXAT2

MODEL NUMBER	UNIT	C01AT2	C02AT2
PERFORMANCE			
Sensitivity ¹	pC/g	5	10
	pC/(m/s ²)	0.5	1
Measurement Range	g	±1000	±800
Non-Linearity ³	%	1	
Frequency Range	± 5%	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 15.8×26.7	
	in	HEX 0.622×1.051	
Electrical Connector	-	10-32 Top	
Mounting Thread	-	M5 (Opt. 10-32)	
Weight ²	g	30	30
	oz	1.058	1.058

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

CXXAT2

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS



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