

Universal Testing Type Accelerometer

DETAILS

C02TXTT series charge high temperature acceleration sensor, using ultra-high temperature piezoelectric ceramics, has ultra-low sensitivity temperature response and high impedance at high temperatures. The shell adopts nickel-based alloy laser welding seal with good air tightness, special coaxial 10-32 connector, signal ground isolation from the shell, can be equipped with domestic and foreign high-temperature metal cables, the bottom is equipped with M5 mounting holes

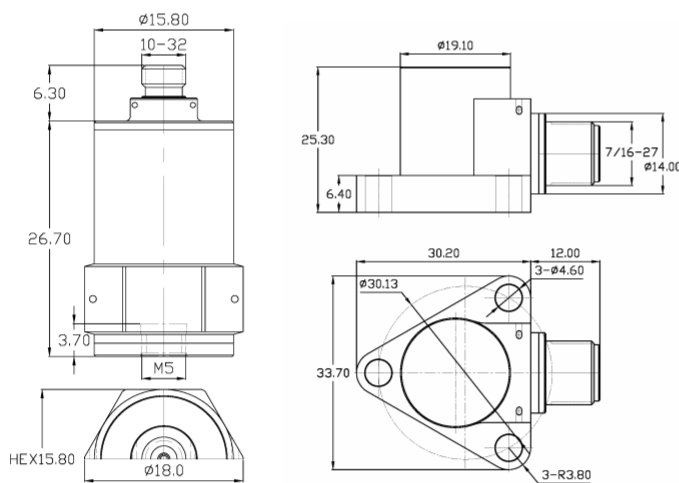
FEATURES

- Maximum operating temperature up to 500°C, ultra-low sensitivity temperature coefficient
- Special double coaxial 10-32 output connector form
- Designed for high temperature test environments, radiation resistant

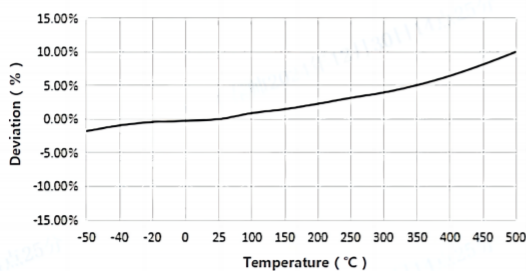
TYPICAL APPLICATIONS

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

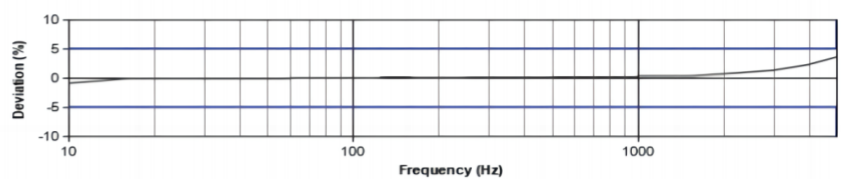
Fig_1 Dimensions of C02TXTT



Fig_2 Typical Temperature Response



Fig_3 Typical Frequency Response



C02TXTT

Specifications-C02XTXT

MODEL NUMBER	UNIT	C02AT2T	C02BT3T
PERFORMANCE			
Sensitivity ¹	pC/g	10	10
	pC/(m/s ²)	1	1
Measurement Range	g	±800	±600
Non-Linearity ³	%	1	
Frequency Range	± 5%	10-5k	10-5k
	±10%	1-7k	1-10k
Resonance Frequency ²	Hz	≥25k	≥30k
Discharge Time Constant ²	s	-	
Transverse Sensitivity	%	≤5	
ELECTRICAL			
Capacitance	PF	550	500
Resistance	Ω	≥1×10 ⁹	≥1×10 ⁹
Electrical Isolation	Ω	≥1×10 ⁸	≥1×10 ⁸
ENVIRONMENTAL			
Sinusoidal Vibration Limit ⁴	g	1000	1000
Shock Limit ⁴	g	1500	1500
Temperature Range	°C	-50-500	
	°F	-58-932	
Temperature Response ²	%/°C	0.02	0.023
PHYSICAL			
Sealing	-	Laser welding IP68	
Sensing Element	-	Piezoelectric ceramics	
Housing Material	-	Nickel-based alloy	
Size	mm	HEX 15.8×26.7	33.7×30.2×25.3
	in	HEX 0.622×1.051	1.327×1.189×0.996
Electrical Connector	-	10-32 TOP	7/16-27 2-pin
Mounting Thread	-	M5 (Opt. 10-32)	M4×3
Weight ²	g	30	80
	oz	1.058	2.822

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

C02XTXT

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS



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