C0XAG4

Universal Testing Type Accelerometer

DETAILS

C0XAG4 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.

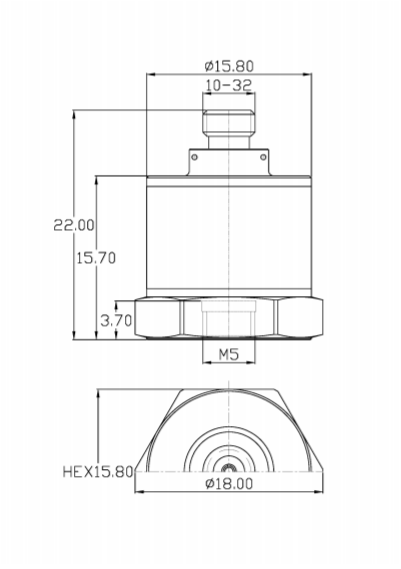
FEATURES

- Operating temperature up to 300°C, ultra-low sensitivity temperature coefficient
- High quality high temperature piezoelectric material, low temperature bleaching
- Special high temperature 10-32 connector output form

TYPICAL APPLICATIONS

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

Fig_1 Dimensions of C0XAG4



C0XAG4

Fig_2 Typical Temperature Response

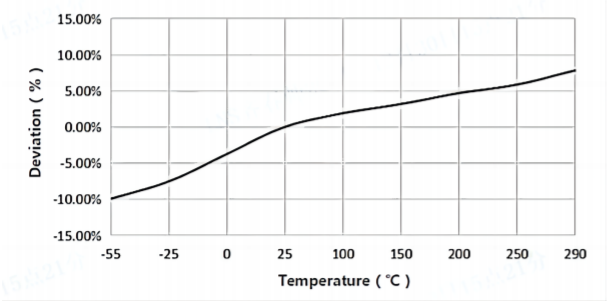
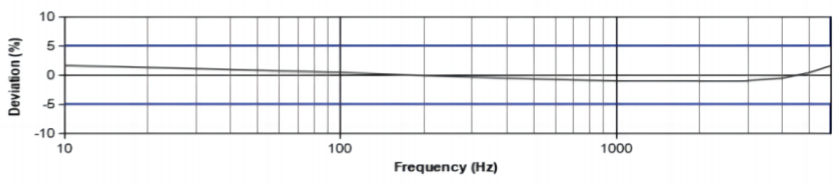


Fig_3 Typical Frequency Response



Specifications-C0XAG4

MODEL NUMBER		UNIT	C05AG4	C06AG4
PERFORMANCE				
Sensitivity [1]		pC/g	50	100
		pC/(m/s²)	5	10
Measurement Range		g	±800	±500
Non-Linearity [3]		%	1	
Frequency Range	± 5%	Hz	1-6k	1-5k
	±10%		1-9k	1-8k
Resonance Frequency [2]		Hz	≥30k	≥25k
Discharge Time Constant [2]		s	-	
Transverse Sensitivity		%	≤1	
ELECTRICAL				
Capacitance		PF	2300	2300
Resistance		Ω	$\geq 1\times10^{11}$	$\geq 1\times10^{11}$
Electrical Isolation		Ω	$\geq 1\times10^{8}$	$\geq 1\times10^{8}$
ENVIRONMENTAL				
Sinusoidal Vibration Limit [4]		g	2000	2000
Shock Limit [4]		g	3000	3000
Temperature Range		°C	-55~288	
		°F	-67~550.4	
Temperature Response [2]		%/°C	0.04	
PHYSICAL				
Sealing		-	Laser welding IP68	
Sensing Element		-	Piezoelectric ceramics	
Housing Material		-	Nickel-based alloy	
Size		mm	HEX 15.8×22	HEX 15.8×22
		in	HEX 0.622×0.866	HEX 0.622×0.866
Electrical Connector		-	10-32 Top	
Mounting Thread		-	M5 (Opt. 10-32)	
Weight [2]		g	23	26
		oz	0.811	0.917

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

C0XAG4

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-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