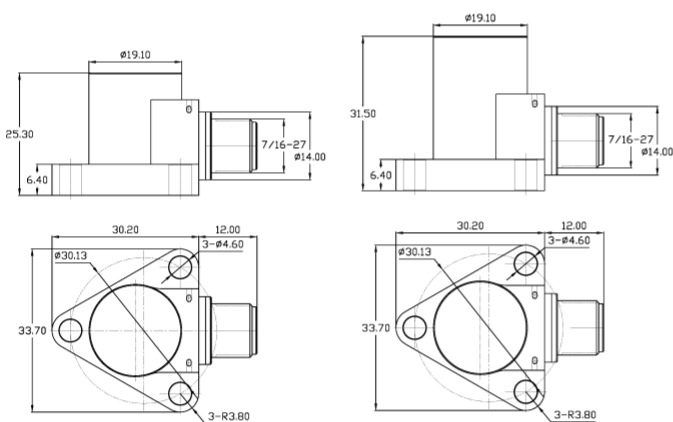


DETAILS

Fig_1 Dimensions of CXXBTX



Temperature (°C)	Deviation (%)
-50	-2.5
-20	-0.5
0	0.0
25	0.0
100	1.0
200	2.5
300	4.0
400	7.0
500	10.0

- Designed for high temperature test environments
- Maximum operating temperature up to 500°C, ultra-low sensitivity temperature coefficient response

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



Frequency (Hz)	Deviation (%)
10	-1.0
20	1.5
40	0.0
60	-1.0
80	-1.5
100	-0.5
200	0.0
400	-0.2
600	-0.1
800	0.0
1000	0.0
1200	0.5
1400	1.0
1600	1.5

Specifications-CXXBTX

MODEL NUMBER		UNIT	C02BT3	C05BT3
PERFORMANCE				
Sensitivity ¹		pC/g	10	50
		pC/(m/s²)	1	5
Measurement Range		g	±600	±300
Non-Linearity ³		%	1	
Frequency Range	± 5%	Hz	10-5k	10-2.5k
	±10%		1-9k	1-4.5k
Resonance Frequency ²		Hz	≥30k	≥16k
Discharge Time Constant ²		s	-	
Transverse Sensitivity		%	≤5	
ELECTRICAL				
Capacitance		PF	500	650
Resistance		Ω	≥1×10 ⁹	≥1×10 ⁹
Electrical Isolation		Ω	≥1×10 ⁸	≥1×10 ⁸
ENVIRONMENTAL				
Sinusoidal Vibration Limit ⁴		g	1000	500
Shock Limit ⁴		g	1500	1000
Temperature Range		°C	-50~500	
		°F	-58~932	
Temperature Response ²		%/°C	0.023	
PHYSICAL				
Sealing		-	Laser welding IP68	
Sensing Element		-	Piezoelectric ceramics	
Housing Material		-	nickel-based alloy	
Size	mm		33.7×30.2×25.3	33.7×30.2×31.5
	in		1.327×1.189×0.996	1.327×1.189×1.240
Electrical Connector		-	7/16-27 2-pin	
Mounting Thread		-	M4×3 THRU	M4×3 THRU
Weight ²	g		80	110
	oz		2.822	3.880

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

CXXBTX

Supplied Accessories:

- Product Verification Report
- Install Screws

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