

Universal Testing Type Accelerometer

DETAILS

Dual head back-to-back calibrated reference standard transducer design. Highly reliable structure design for better frequency response characteristics. Special piezoelectric ceramic material, high annual stability, low lateral sensitivity.

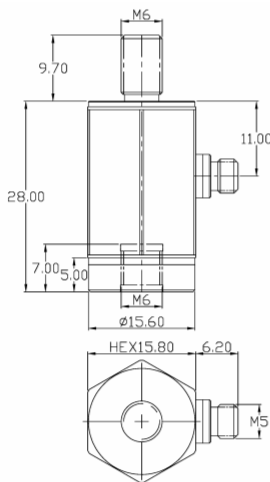
FEATURES

- Charge-type Acceleration Sensor
- Shear structure
- Broadband response

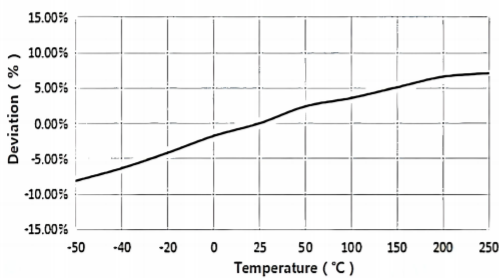
TYPICAL APPLICATIONS

- Powertrain NVH
- Component/system testing
- Structure response testing where sensors must fit within devices

Fig_1 Dimensions of C01B05

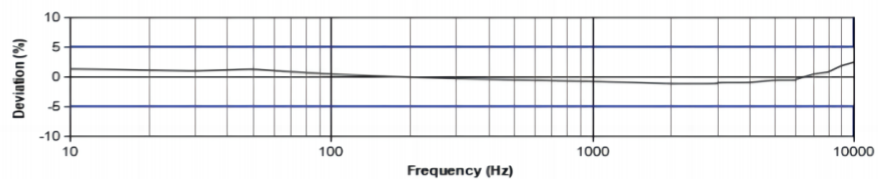


Fig_2 Typical Temperature Response



C01B05

Fig_3 Typical Frequency Response



Specifications-C01B05

MODEL NUMBER	UNIT	C01B05	
PERFORMANCE			
Sensitivity ¹	pC/g	2.5	
	pC/(m/s ²)	0.25	
Measurement Range	g	±5000	
Non-Linearity ³	%	1	
Frequency Range	± 5%	Hz	0.5-10k
	±10%		0.3-12k
Resonance Frequency ²	Hz	≥50k	
Discharge Time Constant ²	s	-	
Transverse Sensitivity	%	≤2	
ELECTRICAL			
Capacitance	PF	480	
Resistance	Ω	≥1×10 ¹¹	
Electrical Isolation	Ω	-	
ENVIRONMENTAL			
Sinusoidal Vibration Limit ⁴	g	6000	
Shock Limit ⁴	g	8000	
Temperature Range	°C	-50-250	
	°F	-58-482	
Temperature Response ²	%/°C	0.06	
PHYSICAL			
Sealing	-	Laser welding IP68	
Sensing Element	-	Piezoelectric ceramics	
Housing Material	-	Stainless Steel	
Size	mm	HEX 15.8×28	
	in	HEX 0.622×1.102	
Electrical Connector	-	M5 Side (Opt. 10-32)	
Mounting Thread	-	M6	
Weight ²	g	41	
	oz	1.446	

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

C01B05

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS



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