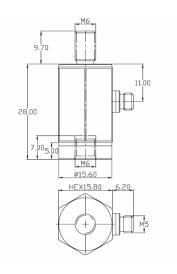


Universal Testing Type Accelerometer

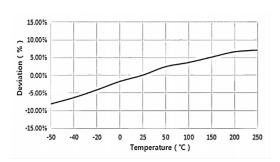
DETAILS

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.

Fig_1 Dimensions of C01B05



Fig_2 Typical Temperature Response



FEATURES

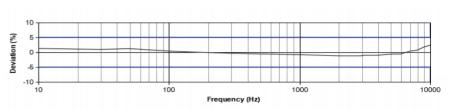
- · Charge-type Acceleration Sensor
- ·Shear structure
- · Broadband response

TYPICAL APPLICATIONS

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



Fig_3 Typical Frequency Response





Specifications-C01B05

PERFORMANCE PC/g 2.5	MODEL NUMBER		UNIT	C01B05	
Sensitivity	PERFORMANCE				
PC/(m/s²) 0.25	Sensitivity ¹		pC/g	2.5	
Non-Linearity Society			pC/(m/s²)	0.25	
\$\pmathbb{\p	Measurement Range		g	±5000	
±10% Hz D.3-12k Resonance Frequency Hz >50k Discharge Time Constant 2 s -	Non-Linearity ³		%	1	
\$10% Fequency \$10% \$10% Fequency \$10% \$10% Fequency \$10%	Frequency Range	± 5%	Hz	0.5-10k	
Discharge Time Constant ² s - Transverse Sensitivity % ≤2 ELECTRICAL Capacitance PF 480 Resistance Ω ≥1×10 ^{II} Electrical Isolation Ω - ENVIRONMENTAL Sinusoidal Vibration Limit ⁴ g 6000 Shock Limit ⁴ g 8000 °C -50-250 -50-250 °F -58-482 -58-482 Temperature Range °F -58-482 Temperature Response ² %/°C 0.06 PHYSICAL Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41		±10%		0.3-12k	
Discharge Time Constant ** \$ Transverse Sensitivity % ELECTRICAL Capacitance PF 480 Resistance Ω ≥1×10 ¹¹ Electrical Isolation Ω - ENVIRONMENTAL Sinusoidal Vibration Limit ** g 8000 Shock Limit ** g 8000 **C -50-250 -58-482 Temperature Range **F -58-482 Temperature Response **2 %/*°C 0.06 PHYSICAL Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight **2	Resonance Frequency ²		Hz	≥50k	
ELECTRICAL Capacitance PF 480 Resistance Ω ≥1×10 ¹¹ Electrical Isolation Ω - ENVIRONMENTAL Sinusoidal Vibration Limit ⁴ g 8000 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 mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41	Discharge Time Constant ²		s	-	
Capacitance PF 480 Resistance Ω »1×10 ^{II} 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 Imm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41	Transverse Sensitivity		%	≤2	
Resistance Ω ≥1×10¹¹ 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 %J°C 0.06 PHYSICAL Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41	ELECTRICAL				
Electrical Isolation Ω	Capacitance		PF	480	
Sinusoidal Vibration Limit 4 g 6000	Resistance		Ω	≥1×10 ¹¹	
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 In HEX 15.8×28 In HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight 2 41	Electrical Isolation		Ω	-	
Shock Limit 4 g 8000	ENVIRONMENTAL				
Temperature Range °C	Sinusoidal Vibration Limit ⁴		g	6000	
Temperature Range	Shock Limit ⁴		g	8000	
°F -58~482 Temperature Response ² %/°C 0.06 PHYSICAL Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel Size in HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41	Temperature Range		°C	-50~250	
PHYSICAL Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight 2 41			°F	-58~482	
Sealing - Laser welding IP68 Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight 2 41	Temperature Response ²		%/°C	0.06	
Sensing Element - Piezoelectric ceramics Housing Material - Stainless Steel mm HEX 15.8×28 Size in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight 2 41	PHYSICAL				
Housing Material - Stainless Steel	Sealing		-	Laser welding IP68	
mm	Sensing Element		-	Piezoelectric ceramics	
Size in HEX 0.622×1.102	Housing Material		-	Stainless Steel	
in HEX 0.622×1.102 Electrical Connector - M5 Side (Opt. 10-32) Mounting Thread - M6 Weight ² 41	Size		mm	HEX 15.8×28	
Mounting Thread - M6 Weight 2 41	0.20		in	HEX 0.622×1.102	
g 41 Weight ²	Electrical Connector		-	M5 Side (Opt. 10-32)	
Weight ²	Mounting Thread		-	М6	
	Weight ²		g	41	
			OZ	1.446	

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

C01B05

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS









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