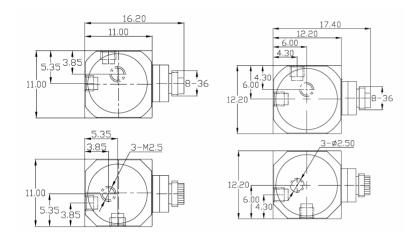


IEPE Triaxial Accelerometer

DETAILS

Model B01Y39 B02Y39 B03Y39 B05Y39 B06Y39 triaxial acceleration sensor, using piezoelectric ceramic shear structure, with a wide band frequency response, highquality piezoelectric ceramic with long-term stability can ensure years of accurate measurement. Built-in low impedance circuit, noise. sensitivity low better temperature response and other characteristics. The shell is made of titanium alloy with less density, laser welding, glass sintered 8-36 four-core connector output. Each of the three axial directions is equipped with calibration holes for easy calibration and installation, and an insulated mounting kit is standard.

Fig_1 Dimensions of BXXY39



FEATURES

- · Integrated Microminiature Built-in
- · One-point multi-axial measurement
- ·Shear structure, stable and reliable
- · Insulated mounting base as standard

TYPICAL APPLICATIONS

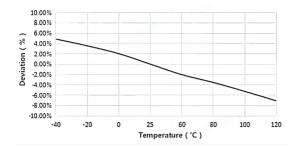
- · Powertrain NVH
- · HASS/HALT
- · Modal structure and analysis



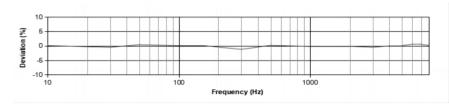


BXXY39

Fig_2 Typical Temperature Response



Fig_3 Typical Frequency Response





Specifications-BXXY39

MODEL NUMBER		UNIT	B01Y39	B02Y39	B03Y39	B05Y39	B06Y39
PERFORMANO	E						
Sensitivity(±5%) ¹		mV/g	5(±10%)	10(±10%)	20	50	100
		mV/(m/s²)	0.5	1	2	5	10
Measurement Range		g	±1000	±500	±250	±100	±50
Broadband Resolution ²		g rms	0.002	0.001	0.0005	0.0002	0.0001
Non-Linearity ³		%	1				
Pange	5%	- Hz	1-9k	1-8k	1-8k	1-7k	1-7k
	10%		0.5-10k	0.5-10k	0.5-10k	0.5-9k	0.5-9k
Resonance Frequency ²		Hz	≥70k	≥40k	≥70k	≥39k	≥35k
Discharge Time Constant ²		S	≼1				
Transverse Sensitivity		%	≤5				
ELECTRICAL							
Excitation Voltage		VDC	20-30				
Constant Current Excitation		mA	2-20				
Output Impedance		Ω	≤100				
Output Bias Voltage		V	8-12				
Electrical Isolation		Ω	-				
Spectral Noise ²	10Hz		300	150	75	30	15
	100Hz	µg/√Hz	80	40	20	8	4
	1000Hz]	40	20	10	4	2
ENVIRONMEN	TAL						
Sinusoidal Vibration Limit ⁴		g rms	2500	2000	1200	800	400
Shock Limit ⁴		g pk	8000	5000	3000	2000	1000
Temperature Range		°C	-40~120				
		°F	-40~248				
Temperature Response ²		%/°C	-0.1				
PHYSICAL							
Sealing		-	Laser welding IP68				
Sensing Element		-	Piezoelectric ceramics				
Housing Material		-	Titanium Alloy				
Size		mm	11.00 Cube 12.20 Cube				
		in	0.433 Cube 0.480 Cube				
Electrical Connector		-	8-36 4-pin Side				
Mounting Thread		-	M2.5				
Weight ²		g	3.6	4	4.2	6	7
		OZ	0.127	0.141	0.148	0.212	0.247
TEDS Optional⁵		-			Yes		

Additional Information

Note:

- 1. @ 160Hz, 24VDC, 4mA conditions
- 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 state5. Some products may have changes in size after adding TEDS

BXXY39

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector -E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS









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