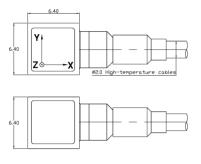


Universal Testing Type Accelerometer

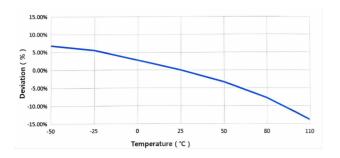
DETAILS

BXXY36 3-Axis micro-miniature acceleration sensor with piezoelectric ceramic shear structure with wide band frequency response and customised ASIC chip conditioning circuit. The housing is made of less dense titanium alloy and laser welded.

Fig_1 Dimensions of BXXY36



Fig_2 Typical Temperature Response



FEATURES

- · Wide bandwidth frequency response
- · Micro-miniature, Lightweight

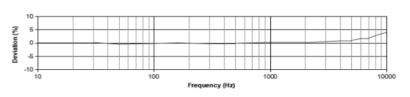
TYPICAL APPLICATIONS

- ·Drop test and package test
- •Testing of equipment with restricted installation space
- ·Testing of small components
- ·Environmental stress screening test
- ·Powertrain NVH testing



BXXY36

Fig_3 Typical Frequency Response





Specifications-BXXY36

MODEL NUMBER		UNIT	B01Y36	B02Y36
PERFORMANCE				
Sensitivity (±20%) ¹		mV/g	5	10
		mV/(m/s²)	0.5	1
Measurement Range		g	±1000	±500
Broadband Resolution ²		g rms	0.002	0.001
Non-Linearity ³		%	1	
Frequency ±5%	%	Hz	5-10k	5-8k
Range ±10	%		2-12k	2-10k
Resonance Frequen	cy ²	Hz	≥50k	≥50k
Discharge Time Constant ²		s	<1	
Transverse Sensitivity		%	≤5	
ELECTRICAL		1		
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		µg/√Hz	300	150
			80	40
			40	20
ENVIRONMENTA	AL			
Sinusoidal Vibration Limit ⁴		g rms	2000	1500
Sinusoidal Vibration	LIIIII			
	LITTIC	g pk	3000	2000
Shock Limit ⁴		g pk °C		
			3000	100
Shock Limit ⁴		°C	3000 -50~	100
Shock Limit ⁴ Temperature Range		°C °F	3000 -50~ -58~	100
Shock Limit ⁴ Temperature Range Temperature Respor		°C °F	3000 -50~ -58~	-0.13
Shock Limit ⁴ Temperature Range Temperature Respor		°C °F %/°C	3000 -50~ -58~ -0.07	-0.13 ding IP68
Shock Limit ⁴ Temperature Range Temperature Respor PHYSICAL Sealing		°C °F %/°C -	3000 -50~ -58~ -0.07 Laser wel	-0.13 ding IP68 ic ceramics
Shock Limit ⁴ Temperature Range Temperature Respor PHYSICAL Sealing Sensing Element Housing Material		°C °F %/°C	3000 -50~ -58~ -0.07 Laser wel	-0.13 ding IP68 ic ceramics m Alloy
Shock Limit ⁴ Temperature Range Temperature Respor PHYSICAL Sealing Sensing Element		°C °F %/°C	3000 -50~ -58~ -0.07 Laser well Piezoelectri Titaniur	ding IP68 ic ceramics m Alloy Cube
Shock Limit ⁴ Temperature Range Temperature Respor PHYSICAL Sealing Sensing Element Housing Material	nse ²	°C °F %/°C mm	3000 -50~ -58~ -0.07 Laser well Piezoelectri Titaniur 6.40	ding IP68 ic ceramics m Alloy Cube Cube
Shock Limit ⁴ Temperature Range Temperature Respone PHYSICAL Sealing Sensing Element Housing Material Size	nse ²	°C °F %/°C mm in	3000 -50~ -58~ -0.07 Laser well Piezoelectri Titaniur 6.40 (ding IP68 ic ceramics m Alloy Cube Cube cable 4-pin
Shock Limit ⁴ Temperature Range Temperature Respone PHYSICAL Sealing Sensing Element Housing Material Size Electrical Connector	nse ²	°C °F %/°C mm in -	3000 -50~ -58~ -0.07 Laser well Piezoelectri Titaniur 6.40 0 0.252 Connected	ding IP68 ic ceramics m Alloy Cube Cube cable 4-pin

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
 5. Some products may have changes in size after adding TEDS

BXXY36

Supplied Accessories:

- Product Verification Report
- Install Screws

COMPLIANCE WITH STANDARDS









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