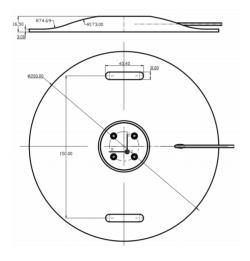


IEPE Seat Accelerometer

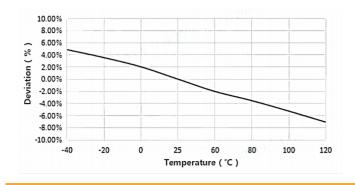
DETAILS

B06H46 Seat Cushion Sensor is used for seat vibration testing. It simulates the vibrations experienced by a vehicle during operation to evaluate the comfort and stability of seats under various road conditions. The sensor is housed within a rubber cushion and has a total weight of approximately 340g.

Fig_1 Dimensions of B06H46



Fig_2 Typical Temperature Response



FEATURES

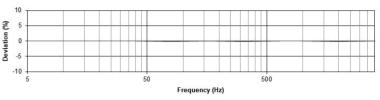
- · IEPE Seat Acceleration Sensor
- · Shear structure
- · Broadband response

TYPICAL APPLICATIONS

- ·Comfortability, handling, and reliability research
- ·Vibration exposure testing for construction vehicles
- ·Seat development testing
- ·Seat suspension, installation, mounting brackets, and damping testing



Fig_3 Typical Frequency Response





Specifications-B06H46

MODEL NUMBER		UNIT	В06Н46
PERFORMANO	CE		
Sensitivity ¹		mV/g	100
		mV/(m/s²)	10
Measurement Range		g	±50
Broadband Resolution ²		g rms	0.0001
Non-Linearity ³		%	1
Pange	5%	Hz	1-4k
	:10%		0.5-6k
Resonance Frequency ²		Hz	≥20k
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	µg/√Hz	15
	100Hz		4
	1000Hz		2
ENVIRONMEN	ITAL		
Sinusoidal Vibration Limit ⁴		g rms	400
Shock Limit ⁴		g pk	2000
Temperature Range		°C	-40~120
		°F	-40~248
Temperature Response ²		-	See typical curve
PHYSICAL			
Sealing		-	Laser welding IP68
Sensing Element		-	Piezoelectric ceramics
Housing Material		-	Titanium alloy / PU
Size		mm	Ф200х16.5
		in	Ф7.874×0.650
Electrical Connector		-	1/4-28 4pin
Mounting Thread		-	-
Weight ²		g	340
		OZ	11.99
TEDS Optional ⁵			No

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 state 5. Some products may have

changes in size after adding TEDS

B06H46

Supplied Accessories:

• Product Verification Report

COMPLIANCE WITH STANDARDS









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