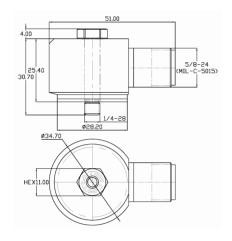


Double Shielded Accelerometer

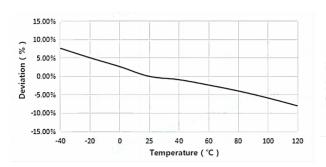
DETAILS

B06B53 B06Y51 industrial type sensor, shear structure, with a wide band frequency response, highquality piezoelectric ceramics with long-term stability of the output characteristics. Internal IEPE two-wire circuit simultaneously provides а constant current source excitation and low impedance voltage signal output signal ground and shell isolation. The housing is made of stainless steel with laser welded seals to ensure corrosion resistance and good sealing, and the industry standard MIL-C-5015 dual-core connector output.

Fig_1 Dimensions of B06B53 B06Y51



Fig_2 Typical Temperature Response



FEATURES

- · Industrial acceleration
- · Double layer shielding
- ·Shear structure
- · Broadband response

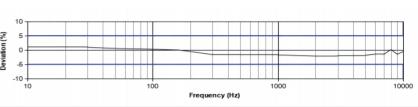
TYPICAL APPLICATIONS

- · Wind turbines
- · Rapid transit
- · Construction machinery



B06B53 B06Y51

Fig_3 Typical Frequency Response





Specifications-B06B53&B06Y51

MODEL NUMBER	UNIT	B06B53	B06Y51
PERFORMANCE			
Sensitivity ¹	mV/g	100	100
	mV/(m/s²)	10	10
Measurement Range	g	±50	±50
Broadband Resolution ²	g rms	0.0001	0.0001
Non-Linearity ³	%	1	
Frequency ± 5%(Hz)	Hz	1-10k	0.5-6k
tange ±10%(Hz)	HZ HZ	0.5-11k	0.3-7k
Resonance Frequency ²	Hz	≥35k	≥30k
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	10-14	
Electrical Isolation	Ω	≥1×10 ⁸	
Spectral Noise ²		15	6
	µg/√Hz	4	2.4
		2	1.6
ENVIRONMENTAL		·	
Sinusoidal Vibration Limit ⁴	g	3000	3000
Sinusoidal Vibration Limit ⁴ Shock Limit ⁴	g g	3000 5000	3000 5000
Shock Limit ⁴			5000
	g	5000	5000
Shock Limit ⁴	g °C	5000 -40~	5000 120 248
Shock Limit ⁴ Temperature Range	g °C °F	5000 -40~	5000 120 248
Shock Limit ⁴ Temperature Range Temperature Response ²	g °C °F	5000 -40~	5000 120 248 .1
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL	g °C °F %/°C	5000 -40~ -40~: -0.	5000 120 248 .1 ding IP68
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing	g °C °F %/°C	5000 -40~ -40~ -0.	5000 120 248 .1 ding IP68
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing Sensing Element Housing Material	g °C °F %/°C	5000 -40~ -40~ -0. Laser welc	5000 120 248 .1 ding IP68 c ceramics s steel
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing Sensing Element	g °C °F %/°C	5000 -40~ -40~ Laser welc Piezoelectric Stainles	5000 120 248 .1 ding IP68 c ceramics s steel <25.40
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing Sensing Element Housing Material	g °C °F %/°C mm	5000 -40~: -0. Laser welc Piezoelectric Stainles	5000 120 248 .1 ding IP68 c ceramics s steel <25.40 66×1
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing Sensing Element Housing Material Size	g °C °F %/°C mm in	5000 -40~ -40~ Laser welc Piezoelectric Stainles φ34.70> φ1.36	5000 120 248 .1 ding IP68 c ceramics s steel <25.40 66×1 2-pin Top
Shock Limit ⁴ Temperature Range Temperature Response ² PHYSICAL Sealing Sensing Element Housing Material Size Electrical Connector	g °C °F %/°C mm in -	5000 -40~: -40~: Laser weld Piezoelectric Stainles φ34.70> φ1.36 MIL-C-5015	5000 120 248 .1 ding IP68 c ceramics s steel <25.40 66×1 2-pin Top

Additional Information

Note:

- 1. @ 160Hz, 24VDC, 4mA conditions
- 2. Typical values
- 3. 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
 Some products may have changes in size after adding TEDS

B06B53&B06Y51

Supplied Accessories:

- Product Verification Report
- Install Screws

COMPLIANCE WITH STANDARDS









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