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Low Outgassing Accelerometers & Cables

PCB® Piezotronics Inc., USA is uniquely positioned in sensor industry to satisfy a wide range of research, test, measurement and monitoring.

Structural Solutions Private Limited, the exclusive representative of PCB group in India is a professional engineering company engaged in offering high-end technology intensive products and system solutions to Indian industry.

Mini-triaxial applications

Space craft structures are often made of thin, light-weight materials and require low mass accelerometers. Full-scale space craft random vibration responses are three-dimensional, so the combination of a triaxial, lowmass accelerometer with low outgassing properties is recommended.PCB® Model 356M208 meets this requirement with a low mass of one gram and low outgassing characteristics.



Shock applications

Separation of booster stages cause shock events that may be transmitted to the spacecraft payload. Low outgassing accelerometers such as PCB® Model 350M72 may be launched with the payload or used in vacuum chamber to simulate launch conditions.

Miniature and Hi-temp applications

Environmental stress screening is often performed in thermal vacuum chambers to verify operating characteristics at the component level rather than on a full-scale vehicle. PCB® Model 357A07 offers a hermetic, low-mass package with a wide operating temperature range from -100 to +500 °F (-73 to +260 °C) and is supplied with a low outgassing cable.

Accelerometers

Triaxial



356M208

- Sensitivity 5 mV/g
 - Measurement Range ± 1,000 g pk
 - Frequency 2 to 8k Hz
 - Weight 1.0 gm
- Sensitivity 0.5 mV/g
 - Measurement Range ± 10,000 g pk
 - Frequency 0.4 to 10k Hz
 - 10-ft Integral cable

Shock



350M72

Miniature Single Axis



352M208

- Sensitivity 10 mV/g
- Measurement Range ± 500 g pk
- Frequency 2 to 10k Hz
- Weight 0.7 gm

High-Temperature



357A07

- Charge Sensitivity 1.7 pC/g
- Measurement Range ± 2000 g pk
- Frequency 15k Hz
- High temperature 500°F (260°C)



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Cables

Contact us for additional cable lengths

Cables for Single Axis Accelerometers



003M208

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, 10-32 plug to 10-32 plug



003A10

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, 10-32 plug to BNC plug



003M269/010

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, 10-32 plug to BNC plug



030A10

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, 3-56 plug to 10-32 plug



003M252

- Low-noise coaxial, Teflon
- 2-meter, 2-socket Ms3106 to BNC plug
- For 2-pin MIL Connectors



003M204

- Low-noise, coaxial Teflon
- 5-ft, 2-socket MS3106 to pigtailed
- For 2-pin MIL Connectors



030B10

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, M3 plug to 10-32 jack



030EK010PH

- Connecting Cable
- Low-noise, coaxial Teflon
- 10-ft, 3-56 plug to 10-32 jack

Cables for Triaxial Accelerometers



034M22

- Sensor Connecting Cable
- 4-conductor shielded, Teflon
- 20-ft, 4-pin 1/4-28 plug to (3)BNC plugs



034M51

- Extension Cable
- 4-conductor shielded, Teflon
- 40-ft, 4-pin 1/4-28 plug to 4-pin 1/4-28 plug



010M128/040

- Extension Cable
- 4-conductor shielded, Teflon
- 40-ft, 4-pin 1/4-28 plug to 4-pin 1/4-28 jack

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