Piezoelectric Accelerometer PV-97

High Temperature Type  3-Axis

Press fit section reinforced by laser machining
Can be used at temperatures up to 200 °C

Dimensions (mm)

Typical frequency response of the PV-97

Noise Level ACC (Acceleration m/s²) (Typical)

| Vibration Meter | VM-83  | 0.1 |
| Vibration Meter Unit | UV-15  | 0.1 |
| 2ch Charge Amplifier | UV-16  | 0.1 |

Specifications

- Unless noted otherwise, data are representative values at 23 °C
- Principle: Piezoelectric acceleration detection, plate shear type
- Number of components: 3 (3-axis orthogonal coordinate system)
- Charge sensitivity: Approx. 0.29 pC/(m/s²) (80 Hz)
- Vibration Frequency range: 1 Hz to 10 000 Hz, 1 to 5 000 (X / Y) (±10 %)
- Max. transverse sensitivity ratio: 5 % or less (30 Hz)
- Maximum measurable acceleration: 5 000 m/s² (peak value)
- Capacitance: Approx. 500 pF (1 kHz)
- Base distortion sensitivity: 0.1 (m/s²) / μstrain or less (using 3 Hz HPF)
- Thermal transient response: 1.0 (m/s²) / °C or less (using 3 Hz HPF)
- Case insulation: Non-insulated
- Case material: Titanium alloy
- Standard mounting method: Adhesive mounting
- Connection: Small 4-pin connector
- Polarity: Positive charge output corresponding to acceleration in direction indicated by arrow on case
- Ambient temperature range for operation: -50 °C to +200 °C
- Dimensions: Approx. 13 (H) x 13 (W) x 13 (D) mm (excl. connector)
- Mass: Approx. 10 g
- Cable: 3-axis low-noise cable VP-51WL for PV-97

Noise Level ACC (Typical)

Relative acceleration level (%)  vs. Frequency (Hz)

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