

# E251A-100 Accelerometer

## Description

- E251A-100 is an extremely small, adhesive mounting piezoelectric accelerometer, its element is piezo-crystal in annular shear mode
- Long stability of sensitivity output
- High output sensitivity and wide bandwidth
- Permits 360°C able orientation
- Signal ground is isolated from ground by a mounting screw

## Characteristics

- Hermetically sealed
- New low profile
- 360°C able orientation
- Machine tool measurement, shaker tables, flight test/ Aerospace
- Special coating on mounting surface



Dynamic Characteristics	
Range	± 50g
Sensitivity(± 5%)	100mV/g
Non-linearity	≤ 1%
Amplitude Response(± 10%)	2 ~ 10,000Hz
Resonant frequency	45kHz
Transverse Sensitivity	≤ 5%
Electrical Characteristics	
DC output bias voltage	+23 ~ 30Vdc
Output Resistance	≤ 100Ω
Output Voltage	± 5V
Resolution	0.00025equiv.g rms
Overload recovery	≤ 10 μs
Grounding	Signal ground is isolated from ground by a mounting screw
DC Output Bias Voltage	+12.3 ~ +13.5Vdc
Environmental characteristics	
Working temperature	-55°C ~ +125°C
Vibration limit	500 g pK
Shock limit	5000 g pK
Humidity	Hermetically sealed
Thermal transient Sensitivity	0.036g pk/°C
Base strain Sensitivity	0.04g pK/μ Strain
Physical characteristics	
Weight	11grams
Case material	Stainless steel

- Through the assessment of environmental test: Vibration, Shock, Acceleration, Electromagnetic compatibility, Temperature, Altitude, Temperature impact, Mould, Salt mist, Humidity and hot etc.