

E256–100 Accelerometer

Description

- E256–100 is a small hermetically sealed piezoelectric accelerometer, its sensitive element is piezo-crystal in annular shear mode
- Long stability of sensitivity output
- Signal ground is isolated from the mounting surface of the unit

Characteristics

- Milli-g' s resolution
- Adhesive mounting
- Light weight (5 grams)
- Hermetically sealed
- Drop testing, vibration measurement on small structure, modal studies

Dynamic Characteristics	
Range	± 50g
Sensitivity (± 10%)	100mV/g
Non-linearity	≤ 1%
Amplitude Response(± 1dB)	1 ~ 10,000Hz
Resonant frequency	25kHz
Transverse Sensitivity	≤ 5%
Electrical Characteristics	
DC output bias voltage	+8.5 ~ +11.5Vdc
Output Resistance	≤ 200 Ω
Output Voltage	± 5V
Overload recovery	≤ 10 μ s sec
Grounding	Signal ground connected to inner case but isolated from outer housing
Power Requirement	
Excitation voltage	+18 ~ +24Vdc
Supply current	+2 ~ +10mA
Warm-up time	<5 Sec
Environmental characteristics	
Working temperature	-55°C ~ +125°C
Vibration limit	1000 g pK
Shock limit	2000 g pK
Humidity	Hermetically sealed
Thermal transient Sensitivity	0.18g pK/°C
Base strain Sensitivity	0.0008g pK/μ Strain
Electromagnetic sensitivity	0.0001g rms/gauss
Physical characteristics	
Weight	5grams
Case material	Stainless steel
Mounting	Flat finish provided for adhesive mounting

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