

E504-100 Accelerometer

Description

- E504-100 is an isoshear piezoelectric accelerometer, its element is Piezo-crystal in shear mode
- Long stability of output, high Resonant frequency, low base strain sensitivity
- Equipped with one low-noise coaxial cable
- requires no external power for operation

Characteristics

- Hermetically sealed
- Ground-isolated
- Top connector
- Temperature compensated to +288 °C
- insensitive to base bending



Dynamic Characteristics	
Sensitivity	100pC/g
Non-linearity	≤ 1 %
Frequency response (±5%)	1 ~ 5,000Hz
Resonant frequency	20kHz
Transverse Sensitivity	≤ 3%
Electrical Characteristics	
Excitation voltage	Passive
Resistance(Either signal pin to case)	≥ 10GΩ
Insulation Resistance	≥ 1GΩ
Capacitance	2800pF
Grounding	Signal return isolated from case
Environmental characteristics	
Working temperature	-55°C ~ +288°C
Vibration limit	1000g pk
Shock limit	5000g pk
Humidity	Hermetically sealed
Base strain Sensitivity	0.0008g pk/μ strain
Thermal transient Sensitivity	0.0003g pk/°C
Electromagnetic Sensitivity	0.0002g rms/gauss
Physical characteristics	
Weight	29grams
Case material	Stainless steel
Mounting Torque	2Nm

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