

Accelerometer AC-500

- Piezo-resistive accelerometer, Range±500g;
- Very low consumption<2mA;
- Very low noise<200µg/√Hz;
- Frequency response≥2500Hz (5%);
- Anti-Shock≥2000g.

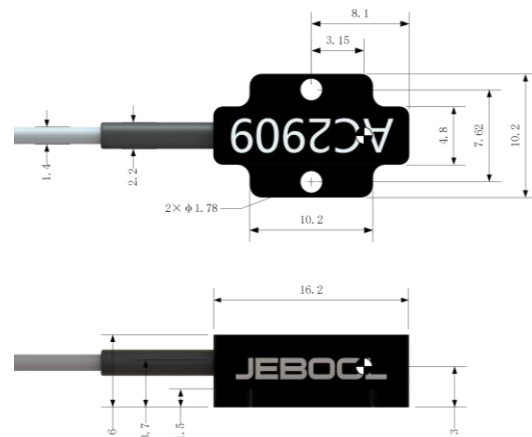


AC-500, based on MEMS, is a single axis accelerometer with very low noise. The sensor can real very high measurement repeatability. It includes an internal LDO to get stable accuracy voltage, which also reduces the sensor power supply. A RC decouple low pass filter is integrated to refine the signal output. The sensor includes wear-resisting cable with default length 8m. Also, the LEMO connector and Dallas ID are optional.

Technical Specification:

| Name | Unit | Value |
|------------------------|--------|-------------------|
| Range | g | ±500 |
| Excitation Voltage | V | 5 |
| Offset | mV | <25 |
| Sensitivity | mV/g | 3.5 |
| Frequency Response | Hz | 2500 (5%) |
| Non-Linearity | %FS | ≤ ± 0.25 |
| Transverse Sensitivity | % | ≤2 |
| Noise Density | µg/√Hz | <200 |
| Current | mA | <2 |
| Thermal Sens. Shift | %/°C | ±0.01 |
| Power on time | ms | <10 |
| Anti-Shock | g | >2000 |
| Output Impedance | Ω | <1 |
| Isolation Resistance | MΩ | >100 |
| Operation Temperature | °C | -40~120 |
| Case Materials | / | Al. Alloy |
| Wight (without cable) | grams | 2 |
| Dimension | mm | 16.2 × 10.2 × 6.0 |

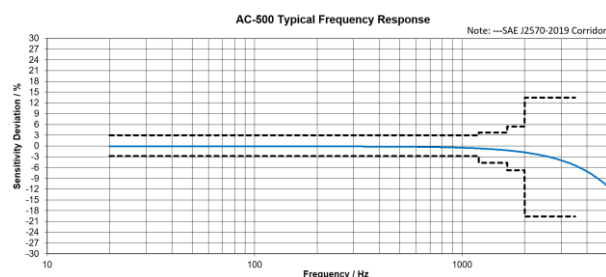
Dimension:



Wire Define:

| | |
|--------|------------------|
| Red | Excitation+, 5V |
| Black | Excitation-, GND |
| Green | Signal+ |
| White | Signal- |
| Shield | Connector Case |

Typical Frequency Response:



Cable and Connector can be as required.

Accessories included: 2 × #0-80 × 3/16 inch socket head cap screw; 2 × #0 flat washers; 1 × Allen wrench.