

## Accelerometer AC-500

- Piezo-resistive accelerometer, Range $\pm 500g$ ;
- Very low consumption $<2mA$ ;
- Very low noise $<200\mu g/\sqrt{Hz}$ ;
- Frequency response $\geq 2500Hz$  (5%);
- Anti-Shock $\geq 2000g$ .



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.

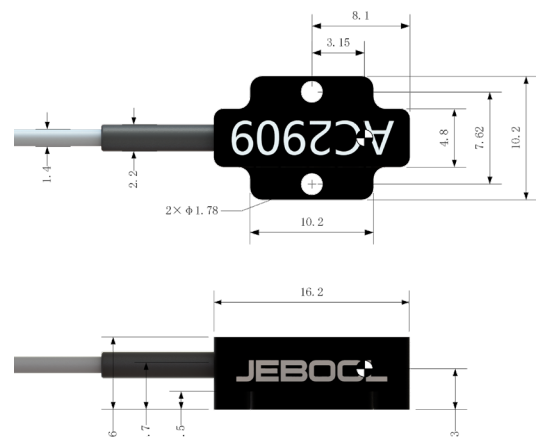
### Technical Specification:

Name	Unit	Value
Range	g	$\pm 500$
Excitation Voltage	V	5
Offset	mV	$<200$
Sensitivity	mV/g	3.5
Frequency Response	Hz	2500 (5%)
Non-Linearity	%FS	$\pm 0.25$
Transverse Sensitivity	%	$\pm 2$
Noise Density	$\mu g/\sqrt{Hz}$	$<200$
Current	mA	$<2$
Thermal Sens. Shift	%/ $^{\circ}C$	$\pm 0.01$
Power on time	ms	$<10$
Anti-Shock	g	$>2000$
Output Impedance	$\Omega$	$<1$
Isolation Resistance	M $\Omega$	$>100$
Operation Temperature	$^{\circ}C$	$-40\sim 80$
Case Materials	/	Al. Alloy
Wight (without cable)	grams	2
Dimension	mm	$16.2 \times 10.2 \times 6.0$

Cable and Connector can be as required.

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

### Dimension:



### Wire Define:

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

### Typical Frequency Response:

