Piezo resistive Accelerometer

**BST 15CB Uniaxial**

**Features**

- Meets SEA J211 spec
- Very small size and rugged
- Anodized Aluminium Housing
- Undamped

**Application**

- Crash test
- Shock test

**Dimensions**

Do to the anodized aluminium housing and the position of the seismic mass makes it possible to use it for crash test. With a 6m, very rugged, shielded and flexible 4-wire cable are all common connectors are mountable. As an option, we supply the sensor with a Dallas ID and a Shunt resistor in the connector.

A calibration for the sensor is obligatory.
Specifications

All Data at 24°C, 80 Hz and 10 V dc Excitation

Range

- 500 g
- 1000 g
- 2000 g

Sensitivity typ.

- 0.4 mV/g
- 0.18 mV/g
- 0.016 mV/g

Frequency

- 2 % max: 1000 Hz, 1800 Hz, 2000 Hz
- 5 % typ.: 2500 Hz, 3000 Hz, 3500 Hz

Resonance Frequency

- > 14 kHz
- > 21 kHz

Shock limit

- 5000 g
- 8000 g

Supply voltage

- 3 to 10 V dc constant

Zero measurement output

- +/- 25 mV typ. (Option +/- 10 mV)

Thermal Shift Zero

- < +/- 0.04 % FSO
- 0° to 50° C

Thermal Shift Span

- - 0.2 % /°C
- +/- 0.05
- 0° to 50° C

Non-Linearity

- +/- 1% of FSO

Bridge Resistance

- 1800 to 2200 Ohm

Isolation

- Sensing Element is isolated from housing

Temperature

- Operation: -20° to 70° C
- Storage: -50° to 100° C

Material

- Aluminium, anodized

Dimensions

- 14.8 x 5.0 x 5.0 mm

Mounting

- 2 x 0-80, 3/16 length or 2x M1,6 x 5 mm

Weight

- 1.5 gram without cable

Cable

- 6m, 4 wires, shielded PUR, AWG 32

Weight

- 12 grams/meter

Diagram

Cable Code

Red = Excitation +
Black = Excitation -
Green = Signal +
White = Signal -

Order information

BST 15CB-2000-6Z
15CB = Model Name
2000 = Range 2000g
6 = 6m cable
Z = no connector