



TR303

Triaxial IEPE Accelerometer

Data Sheet

Light Weight Mini Triaxial Accelerometer

The TR303 from Acoutronic is a Mini triaxial accelerometer for use in a wide areas of applications such as modal analysis or structural testing, automotive, aviation & aerospace applications, environmental/product testing etc.

TR303 weights only 3 gram and has a nominal sensitivity of 10 mV/g. The sensor has a titanium housing.

A single 4-pin connectors allows for quick and convenient mounting of sensor cable.

The adhesive mounting surface gives a flexibility to attach the sensor to a variety of structures.

Key Features of TR303:

- Sensitivity: 10 mV/g
- Weight: 3 grams
- Full Scale Range: 500 g
- Frequency Range: 2 – 10,000 Hz
- Temperature Range: -50°C to 120°C
- Mounting: Adhesive mounting

TR303 Triaxial Accelerometer Specifications

Physical

- Weight
- Size (Height x Width x Depth)
- Mounting
- Connector
- Material, Housing / Connector

3 grams
 9.1 x 9.1 x 9.1 mm
 Adhesive mount
 4-pin
 Titanium Alloy

Performance

- Sensitivity, -10 / +15%
- Range (Full Scale)
- Frequency range, $\pm 10\%$
- Resonance Frequency, Nom.
- Equivalent Electrical Noise Floor
- Amplitude Non Linearity
- Transverse Sensitivity, Max.

10 mv/g
 ± 500 g
 2 – 10,000 Hz
 36 kHz
 0.007 G RMS
 1% F.S
 5%

Environmental

- Maximum Vibration
- Maximum Shock
- Operating Temperature Range
- Thermal Coefficient of Sensitivity
- Environmental seal

± 600 g
 5000 g
 -50°C to 120°C
 ± 0.02 %/°C
 Hermetic

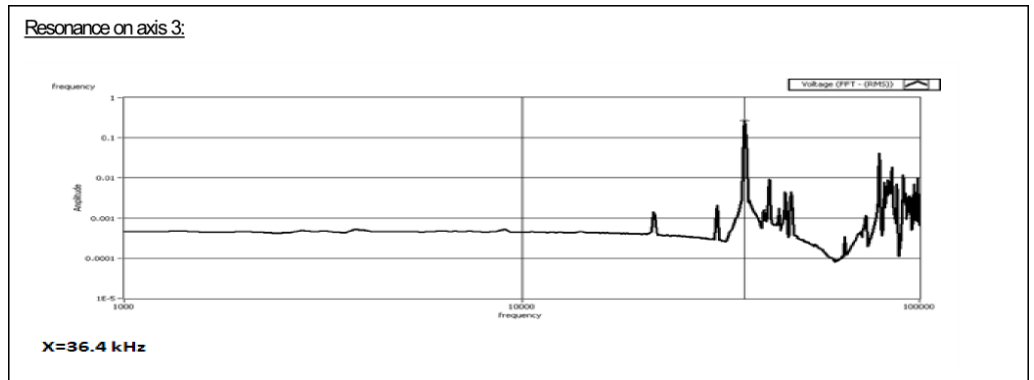
Electrical

- Supply Current Range (each axis)
- Supply Voltage Range (each axis)
- Output Impedance, Typ.
- Output Bias Voltage, Nom.
- Discharge Time Constant, Nom.
- Ground Isolation

2 to 20 mA
 +18 to +30 VDC
 100 Ohms
 +10 VDC
 0.5 sec
 Case Grounded

Frequency characteristics

Relative frequency response and resonance characteristics for TR303 on axis 3.



Distributed by:

Ordering Options

TR303														
AC TR303	-													
Triaxial IEPE Accelerometer														
Accessories for TR303														
AC CBL_4P_3BNC_x														
Accelerometer cable, Low Noise, shielded, 4-pin to 3 independent BNC-connectors, Please specify required length (x) in meters														

Acoutronic Information Centre

Acoutronic AB
 Box 1180
 SE-181 23 Lidingö
 Sweden

Phone: +46-8-765 02 80
Fax: +46-8-731 02 80
E-mail: sales@acoutronic.se

Additional Resources

For further information and product offerings, please visit the Acoutronic web site at:
www.acoutronic.se

