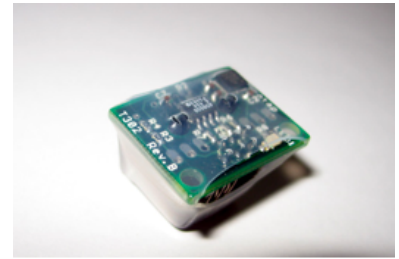


T302D/E Dual-Axis Accelerometer

Technical Specifications



Electrotap, LLC
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Physical Attributes

Dimensions	1" (25.4mm) x 7/8" (22 mm) x 3/4" (19mm)
Solder Mask Color	Green
Encasement	Protective Heatshrink (clear)
Temperature Range	0°C to 70°C (32°F to 157°F)

Sensing Specifications

Description	iMEMS Dual-axis accelerometer manufactured by Analog Devices.
Physical Range	+/- 5g, on two axes
Response Time	20ms

Electrical Specifications

Voltage Source	5 Volts
Minimum Current Source	5 mA
Voltage Returned by Sensor	Industry Standard 0.25 Volts to 4.75 Volts, fully conditioned and buffered on each of two channels.
Connector Layout for Molex connector configuration (Pin 1 indicated with arrow)	Pin 1: Ground Pin 2: Sensor Output, X-Axis Pin 3: 5 Volts (power supply)
Connector Layout for RJ11 connector configuration	Pin 1: Ground Pin 2: Sensor Output, Y-Axis Pin 3: 5 Volts (power supply)
Connector Layout for RJ11 connector configuration	Pin 1: Ground Pin 2: Sensor Output, X-Axis Pin 3: Sensor Output, Y-Axis Pin 4: Unused Pin 5: Unused Pin 6: 5 Volts (power supply)



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Application Examples

- Detecting motion or changes of speed
- Tracking gestural energy
- Finding two axes of tilt (for this application the T302E is highly recommended)
- Applications recommended by the component manufacturer:
 - Tilt and motion sensing
 - Security
 - Pedometers and activity monitors
 - Game controllers
 - Toys and entertainment

Application Notes

- The T302E is identical to the T302D, except that the output of the accelerometer is amplified such that the output is optimized for sensing gradual changes in tilt.