



Sensors > Vibration Sensors > 820M1 Single Axis SMT Accelerometers



Accelerometer Type: **3-Wire Voltage**

Vibration Sensor Product Type: **Piezoelectric Accelerometer**

Number of Sensing Axes: **Uniaxial**

Frequency Response: **2 to 10000 Hz**

Full Scale Output Voltage: **±1.25 VDC**

[All 820M1 Single Axis SMT Accelerometers \(10\)](#)

Features

Product Type Features

Sensor Package	Embedded
Accelerometer Type	3-Wire Voltage
Vibration Sensor Product Type	Piezoelectric Accelerometer

Electrical Characteristics

Excitation Voltage Range	2.8 – 5.5 VDC
Full Scale Output Voltage	±1.25 VDC

Signal Characteristics

Frequency Response	2 to 10000 Hz
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Body Features

Primary Product Material	Ceramic
Product Weight	1 g[.04 oz]
Number of Sensing Axes	Uniaxial

Mechanical Attachment

Sensor Mount Type	Solder
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Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
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Operation/Application

Output Current Type	AC
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Industry Standards

IP Rating	IP68
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Other

Sensitivity Range	25 mV/g
Overall Acceleration Range (±)	50 g
Non-Linearity (FSO)	±1 %
Acceleration Range (±)	50 g
Sensitivity	25 mV/g

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Out of Scope
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # CAT-EAC0021
820M1 Single Axis SMT Accelerometers

TE Part # 20003752-00
805M1-0050-02 TO-5 Accelerometer

Also in the Series | MEAS 810

Vibration Sensors(3)

Customers Also Bought

TE Part #5747847-6
37 MSFL RCPT RA 318 (SL,FM,BL)

TE Part #20005838-00
820M1-0100 Uniaxial 100g Tape Reel 300pc

TE Part #1-2176401-5
3540 51K 1%

TE Part #10217784-00
ABD,AD-101, COMPACT ASSY, 4MM

TE Part #LL01-2AB10
LL01 1/2" NPT 120" CABLE 100C

TE Part #10184000-01
Sleep Tracking Sensor

TE Part #2176615-8
SMQW1W R20 5%

TE Part #805-0500
805-0500 TO-5 Accelerometer

TE Part #20019999-00
PT100 TEMPERATURE SENSOR



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_20005837-00_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_20005837-00_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_20005837-00_C.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

MODEL 820M1 ACCELEROMETER

English

Product Specifications

Manuals & User Guides

English