



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

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
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: JUNE 2023 (235) 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

Also in the Series | MEAS 810




Vibration Sensors(3)

Customers Also Bought



TE Part #5747150-7
09 RCPT SP/FMS INSRT



TE Part #31818
SPLICE, SOLIS, BUTT, 22-16 COMM 22-18MIL



TE Part #1676250-2
RN 0805 20K 0.1% 10PPM 1KRL



TE Part #1676300-2
RN 0805 30K1 0.1% 10PPM 1KRL



TE Part #3-1624112-1
3650 0402 8.2nH 5% 2K RL



TE Part #4-1676971-2
RN 0805 200K 0.1% 10PPM 1K RL



TE Part #CONMMCX001
MMCX Jack 50 Ohm PCB Through Hole



TE Part #CONSMA002-G
SMA Jack 50 Ohm PCB Through Hole



TE Part #1676193-9
RN 0805 150K 0.1% 10PPM



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_20005836-00_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_20005836-00_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_20005836-00_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