



Sensors > Vibration Sensors > Embedded Accelerometers > 820M1 Single Axis SMT Accelerometers



Acceleration Range (\pm): 100 g

Frequency Response: 2 to 10000 Hz

Overall Acceleration Range (\pm): 100 g

Accelerometer Type: 3-Wire Voltage

Number of Axes: 1

[All 820M1 Single Axis SMT Accelerometers \(12\)](#)

Features

Product Type Features

Accelerometer Type	3-Wire Voltage
Embedded Accelerometer Sensor Type	AC Response Embedded Accelerometers

Electrical Characteristics

Excitation Voltage	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

Material	Ceramic
Weight	1 g [.04 oz]
Number of Axes	1

Mechanical Attachment

Embedded Accelerometer Mounting Type	Solder
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Usage Conditions

Operating Temperature Range	-40 – 125 °C [-40 – 257 °F]
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Other

Nonlinearity	±1 %FSO
Acceleration Range (±)	100 g
Overall Acceleration Range (±)	100 g
Sensitivity	12.5 mV/g
Sensitivity Range	12.5 mV/g

Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUL 2021 (219) Candidate List Declared Against: JUN 2020 (209) SVHC > Threshold: Not Yet Reviewed
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



Also in the Series | MEAS 810



Embedded Accelerometers(3)

Customers Also Bought



TE Part #60234-2
SPADE 26-22 AWG TPBR



TE Part #3-1879061-4
CPF 0402 200R 0.1% 25PPM 5K RL



TE Part #6-1879208-6
CPF 0402 5K1 0.1% 25PPM 1K RL



TE Part #1676151-2
RN 0805 10K5 0.1% 10PPM 1KRL



TE Part #1676386-2
RN 0805 5K23 0.1% 10PPM 1KRL



TE Part #1-2176305-5
RP 1E 0.1W 150R 0.1% 25PPM 5K RL



TE Part #50830
TERMINAL,PIDG PTFE R 26-24 6



TE Part #4-1614881-7
CPF 0603 30R 0.1% 25PPM 5K RL



TE Part #832M1-0500
+/-500G AC 3-AXIS BOARD M
ACCELEROMETER

Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG_CVM_CVM_20005838-00_C.2d_dxf.zip](#)

English



Customer View Model

[ENG_CVM_CVM_20005838-00_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_20005838-00_C.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[MODEL 820M1 ACCELEROMETER](#)

English

Product Specifications

[Manuals & User Guides](#)

English