

820M1-0100 ✓ ACTIVE

MEAS | MEAS 810

TE Internal #: 20005838-00

TE Internal Description: 820M1-0100 Single Axis, 100g, T/R

820M1 Single Axis SMT Accelerometers

[View on TE.com >](#)



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



Acceleration Range ( $\pm$ ): 100 g

Frequency Response: 2 to 10000 Hz

Accelerometer Type: 3-Wire Voltage

Number of Sensing Axes: 1

Sensitivity: 12.5 mV/g

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

## Features

### Product Type Features

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

### Electrical Characteristics

Excitation Voltage	2.8 – 5.5 VDC
Full Scale Output Voltage	$\pm$ 1.25 VDC

### Signal Characteristics

Frequency Response	2 to 10000 Hz
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### Body Features

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

### Mechanical Attachment

Mounting Type	Solder
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### Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
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### Industry Standards

IP Rating	IP68
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### Other

Sensitivity Range	12.5 mV/g
Overall Acceleration Range (±)	100 g
Nonlinearity	±1 %FSO
Acceleration Range (±)	100 g
Sensitivity	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	Out of Scope
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: JAN 2023 (233) Candidate List Declared Against: JUN 2020 (209) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

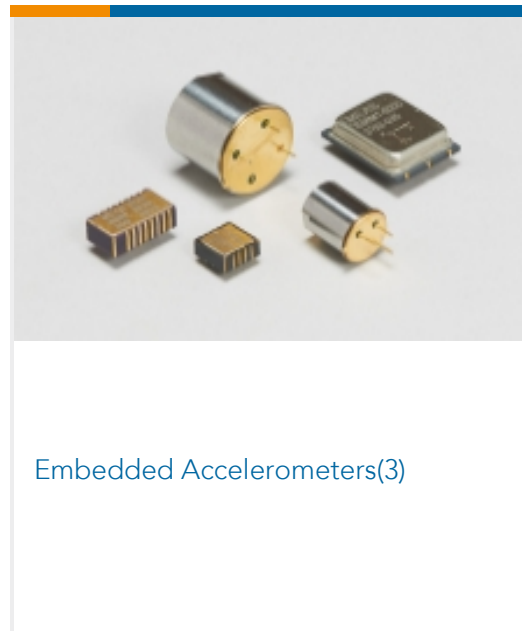
#### Product Compliance Disclaimer

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



### Also in the Series | MEAS 810



### Customers Also Bought



### 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

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

#### Datasheets & Catalog Pages



## MODEL 820M1 ACCELEROMETER

English

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### Product Specifications

### Manuals & User Guides

English