



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 Axes: 1

Sensitivity: 12.5 mV/g

[All 820M1 Single Axis SMT Accelerometers \(3\)](#)

Features

Product Type Features

Accelerometer Type	3-Wire Voltage
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

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

Mechanical Attachment

Mounting Type	Solder
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Usage Conditions

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

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	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: JAN 2020 (205) Not Yet Reviewed
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

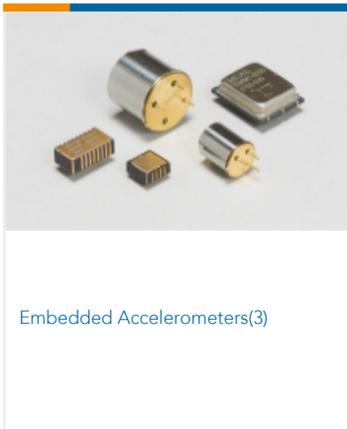
Product Compliance Disclaimer

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

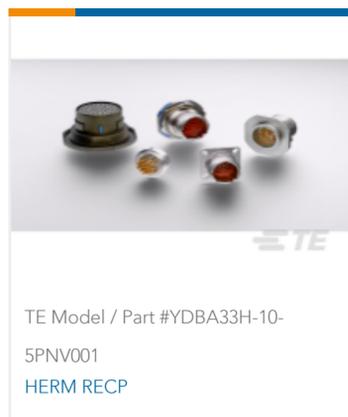
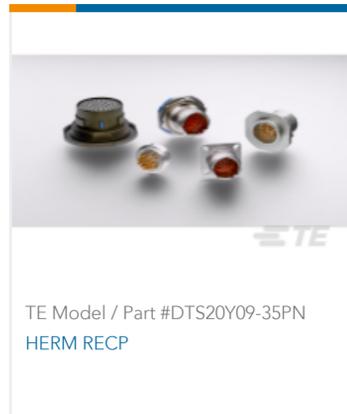
Compatible Parts



Also in the Series | MEAS 810



Customers Also Bought



Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

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

English



Customer View Model

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

English

Customer View Model

[ENG_CVM_CVM_20005838-00_B.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