820M1-0200 ✔ ACTIVE

MEAS | MEAS 820

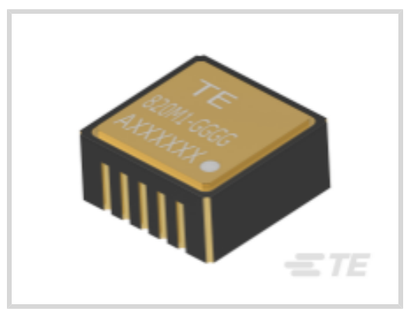
TE Internal #: 20007178-00

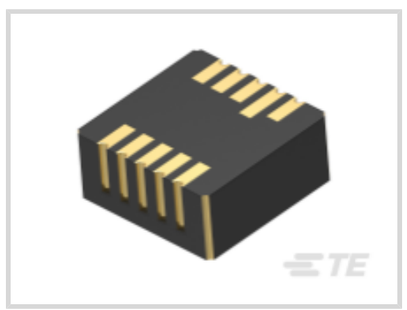
TE Internal Description: 820M1-0200 Single Axis, 200g, T/R

820M1 Single Axis SMT Accelerometers

View on TE.com >

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





Acceleration Range (±): **200 g**

Frequency Response: **2 to 10000 Hz**

Overall Acceleration Range (±): **200 g**

Accelerometer Type: **3-Wire Voltage**

Number of Axes: **1**

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

Body Features

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

Mechanical Attachment

Embedded Accelerometer Mounting Type	Solder

Usage Conditions

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

Other

Nonlinearity	±1 %FSO

Acceleration Range (±)	200 g
Overall Acceleration Range (±)	200 g
Sensitivity	6.3 mV/g
Sensitivity Range	6.3 mV/g

Product Compliance

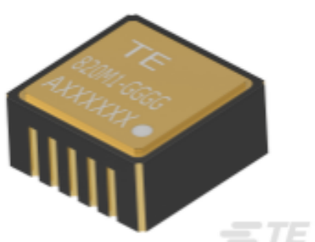
For compliance documentation, visit the product page on TE.com>

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) 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



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

Also in the Series | MEAS 820



Embedded Accelerometers(9)

Customers Also Bought



TE Part #FS2030-000X-0500-G
FS2030 500G FORCE SENSOR



TE Part #1-440146-2
1.25mm WTB Socket,Housing,12p



TE Part #4-2176326-3
CRGP 0603 33K 1%



TE Part #3038-6000
Embedded Accelerometer STOCK LIST



TE Part #1007214-3
AMPLIFIER&US POWER SUPPLY PLUG



TE Part #52464
TERMINAL,PG SPR SPD 16-14 8

Documents

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_20007178-00_C.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_20007178-00_C.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_20007178-00_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