



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



Acceleration Range (±): **6000 g**

Frequency Response: **2 to 10000 Hz**

Overall Acceleration Range (±): **6000 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

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

Mechanical Attachment

| | |
|--------------------------------------|--------|
| Embedded Accelerometer Mounting Type | Solder |
|--------------------------------------|--------|

Usage Conditions

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

Other

| | |
|--------------|---------|
| Nonlinearity | ±1 %FSO |
|--------------|---------|

| | |
|--------------------------------------|----------|
| Acceleration Range (\pm) | 6000 g |
| Overall Acceleration Range (\pm) | 6000 g |
| Sensitivity | .21 mV/g |
| Sensitivity Range | .21 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 |

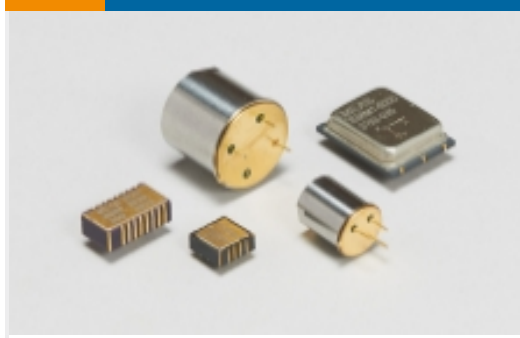
Product Compliance Disclaimer

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



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_20007180-00_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_20007180-00_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_20007180-00_C.3d_stp.zip](#)

English

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Datasheets & Catalog Pages