

1-2199230-5 ✓ ACTIVE



## M.2 NGFF

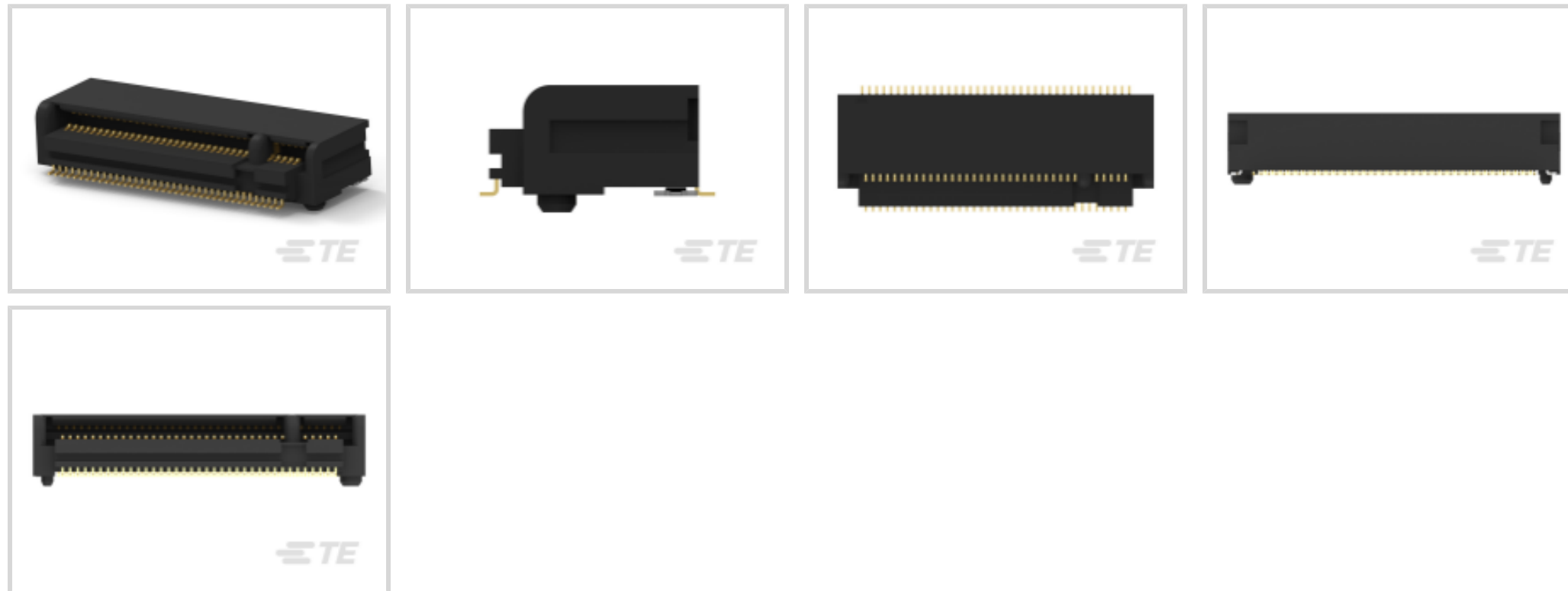
TE Internal #: 1-2199230-5

M.2 Connectors, Height .165 in [4.2 mm], Connector & Keying

Code M, Gold, Power, -40 – 176 °F [-40 – 80 °C], M.2 NGFF

[View on TE.com >](#)

Connectors > PCB Connectors > Card Edge Connectors > M.2 Connectors > M.2 Connectors



Connector Height: 4.2 mm [.165 in]

Connector & Keying Code: M

Contact Mating Area Plating Material: Gold

Circuit Application: Power

Operating Temperature Range: -40 – 80 °C [-40 – 176 °F]

[All M.2 Connectors \(29\)](#)

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector System                  | Board-to-Board        |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                       |             |
|-----------------------|-------------|
| Number of Rows        | 2           |
| PCB Mount Orientation | Right Angle |
| Number of Positions   | 67          |

### Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 50 VAC |
|-------------------|--------|

### Body Features

|                         |       |
|-------------------------|-------|
| Primary Product Color   | Black |
| Connector & Keying Code | M     |

### Contact Features

|  |        |
|--|--------|
|  | 15 µin |
|--|--------|



|  |                 |
|--|-----------------|
| PCB Contact Termination Area Plating Material Finish | Matte           |
| PCB Contact Termination Area Plating Material        | Gold Flash, Tin |
| Contact Base Material                                | Copper Alloy    |
| Contact Current Rating (Max)                         | .5 A            |
| Contact Mating Area Plating Material                 | Gold            |

### Termination Features

|   |               |
|---|---------------|
| Termination Method to Printed Circuit Board | Surface Mount |
|---|---------------|

### Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

### Housing Features

|                    |                                |
|--------------------|--------------------------------|
| Housing Material   | High Temperature Thermoplastic |
| Centerline (Pitch) | .5 mm [.02 in]                 |

### Dimensions

|                  |                   |
|------------------|-------------------|
| Connector Length | 21.9 mm [.862 in] |
| Connector Width  | 8.7 mm [.343 in]  |
| Connector Height | 4.2 mm [.165 in]  |

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 80 °C [-40 – 176 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

### Packaging Features

|                  |             |
|------------------|-------------|
| Packaging Method | Tape & Reel |
|------------------|-------------|

## 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                   | Compliant   |
| 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 2024<br>(240)<br>Candidate List Declared Against: JAN 2024<br>(240)<br>Does not contain REACH SVHC |



Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Reflow solder capable to 245°C

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



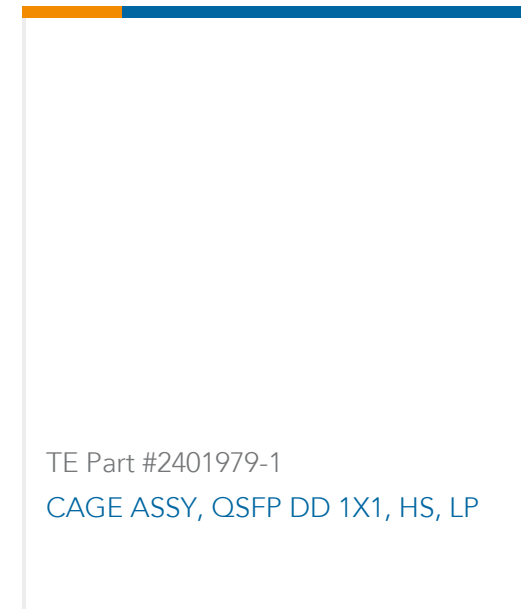
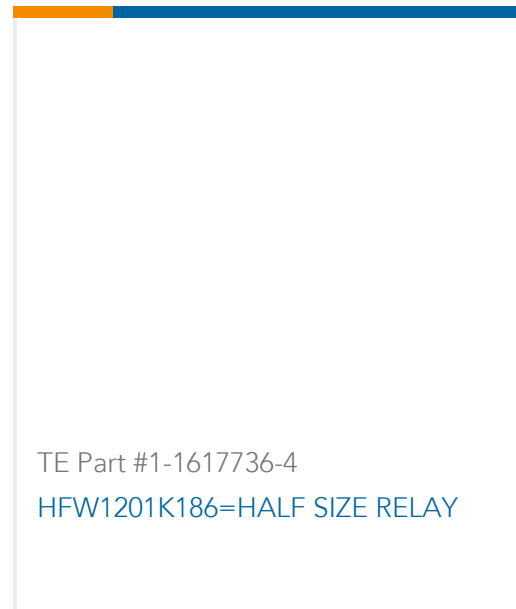
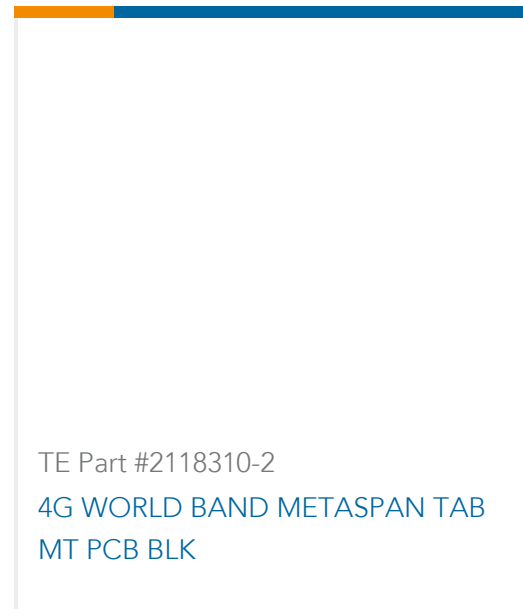
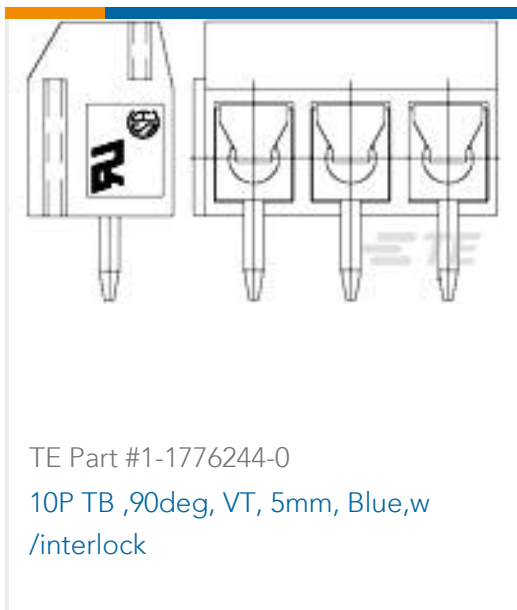
TE Part # 1-2199119-5  
M.2 0.5PITCH 3.2H KEY M 15U" AU

### Also in the Series | M.2 NGFF



M.2 Connectors(32)

### Customers Also Bought



## Documents

### Product Drawings

[M.2 0.5PITCH 4.2H KEY M 15U" AU](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2199230-5\\_B3.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2199230-5\\_B3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2199230-5\\_B3.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[1-1773702-1\\_NGFF\\_QRG-EN](#)

English

### Product Specifications

[Application Specification](#)

English