

1-2199230-5 ✓ ACTIVE



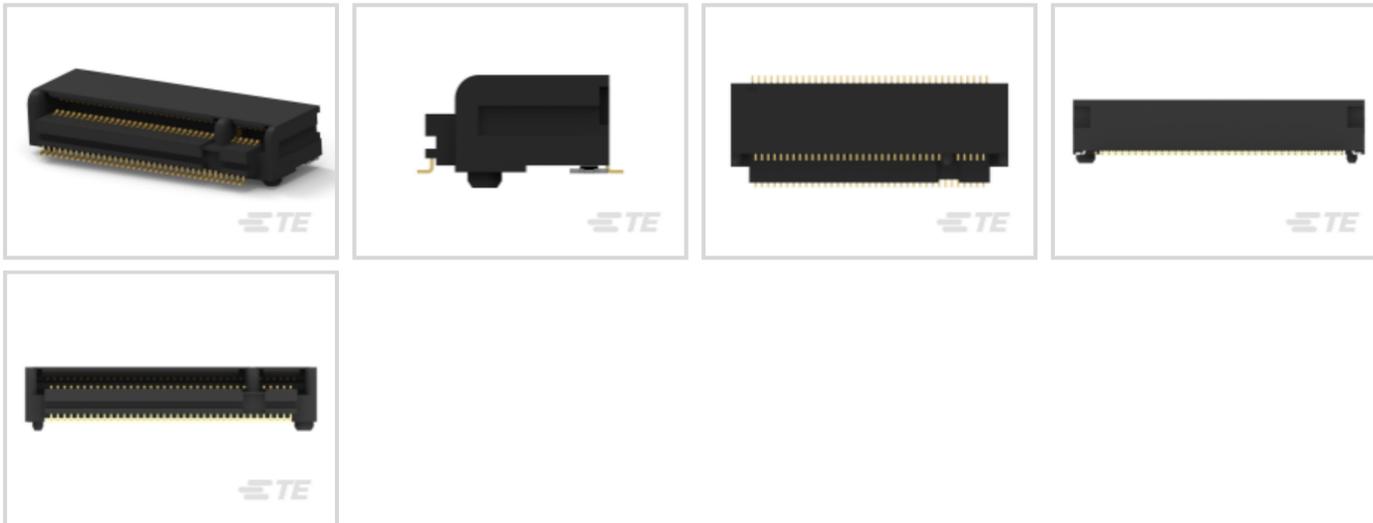
## M.2 NGFF

TE Internal #: 1-2199230-5

4.2 mm [.165 in] Height, M Code, Gold (Au), Power, -40 – 85 °C [-40 – 185 °F], M.2 NGFF, M.2 Connectors

[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 (Au)

Circuit Application: Power

Operating Temperature Range: -40 – 85 °C [-40 – 185 °F]

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

## Features

### Product Type Features

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

### Configuration Features

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

### Electrical Characteristics

Operating Voltage	50 VAC
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### Body Features

Primary Product Color	Black
Connector & Keying Code	M

### Contact Features

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

### Termination Features

Termination Method to PCB	Surface Mount
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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### Housing Features

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

### Dimensions

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

### Usage Conditions

Operating Temperature Range	-40 – 85 °C [-40 – 185 °F]
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### Operation/Application

Circuit Application	Power
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### Packaging Features

Packaging Method	Tape & Reel
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## 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: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC

## Halogen Content

Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free

## Solder Process Capability

Reflow solder capable to 245°C

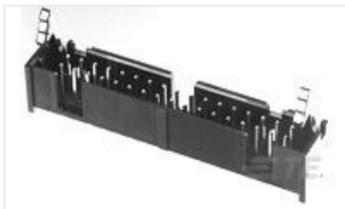
## Product Compliance Disclaimer

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

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

## Customers Also Bought



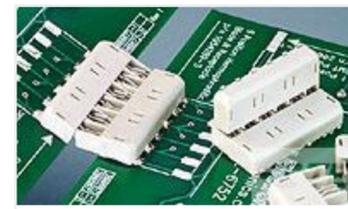
TE Part #104313-7  
040 LOPRO HDR SP 30DP LATCH



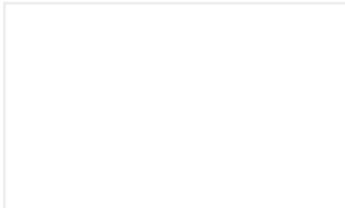
TE Part #2-1879213-2  
CPF 0402 43R2 0.1% 25PPM 1K RL



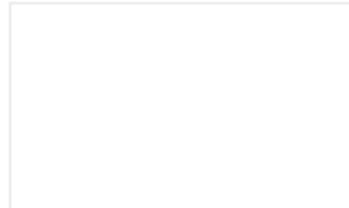
TE Part #1888653-9  
2X1 OFFSET ST/JK WITH LEDS



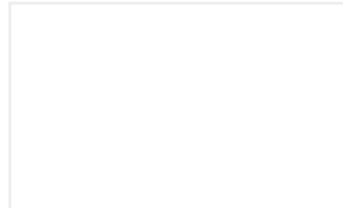
TE Part #1-1954289-3  
Connector, Blade & Recept 6Pos -



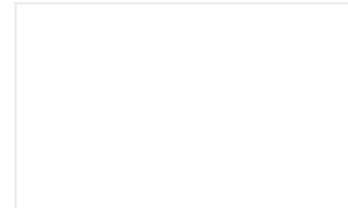
TE Part #2118310-2  
4G WORLD BAND METASPAN TAB  
MT PCB BLK



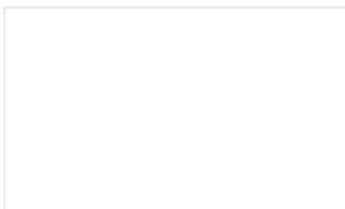
TE Part #5-2356499-8  
ELCON MICRO, HEADER, R/A SMT, 12P



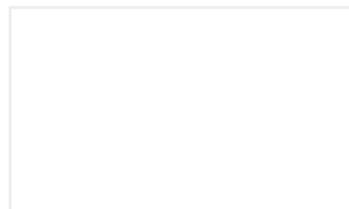
TE Part #3-2204747-8  
ELCON MICRO, HEADER, R/A SMT, 8P



TE Part #3-2356499-8  
ELCON MICRO, HEADER, VERTICAL  
SMT, 8P



TE Part #2383586-1  
CA, CCJ TO 2\*Dynamic



TE Part #2401979-1  
CAGE ASSY, QSFP DD 1X1, HS, LP

## Documents

### 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\\_ORG-EN](#)

English

### Product Specifications



## Application Specification

English