

2199230-3 ✓ ACTIVE



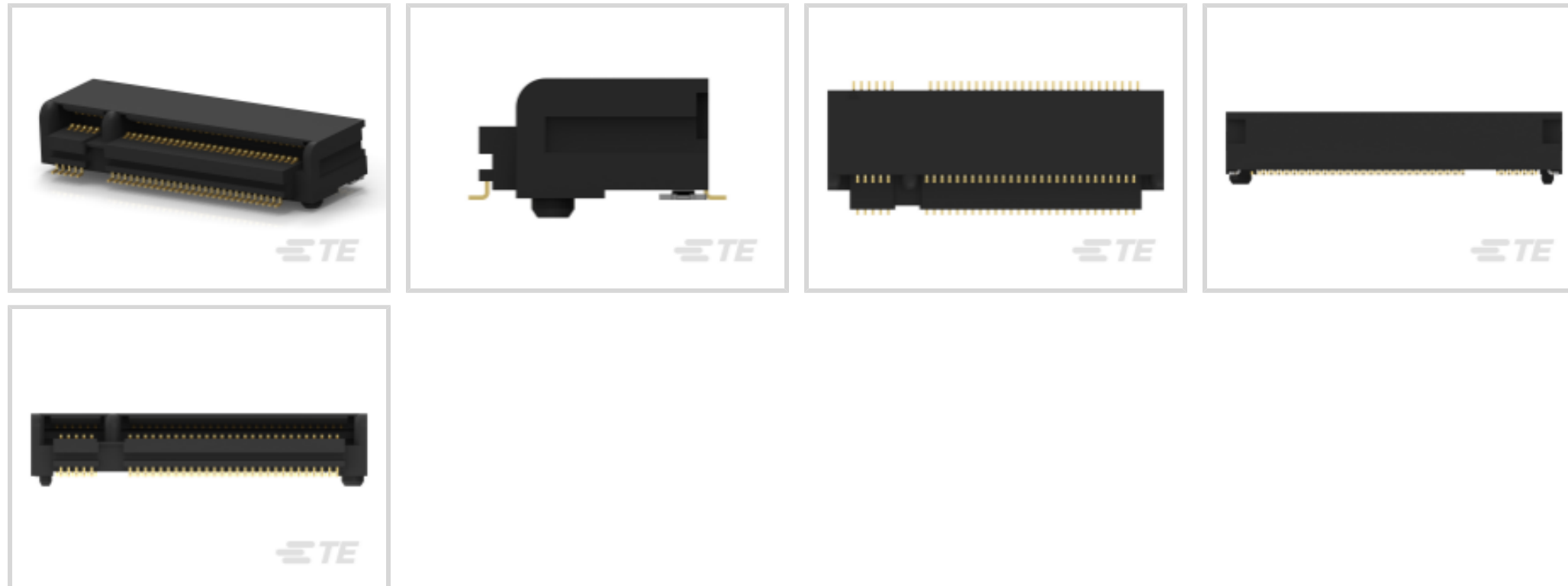
## M.2 NGFF

TE Internal #: 2199230-3

M.2 Connectors, Height 4.2 mm [.165 in], Keying Code B, Gold, Board-to-Board, 67 Position, .02 in [.5 mm] Centerline, Printed Circuit Board, M.2 NGFF

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



Connector Height: 4.2 mm [.165 in]

Keying Code: B

Contact Mating Area Plating Material: Gold

Connector System: Board-to-Board

Number of Positions: 67

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

## Features

### Product Type Features

Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Number of Rows	2
PCB Mount Orientation	Right Angle
Keying Code	B
Number of Positions	67

### Electrical Characteristics

Operating Voltage	50 VAC
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### Contact Features

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

Termination Method to Printed Circuit Board	Surface Mount
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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### Housing Features

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

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

Operating Temperature Range	-40 – 80 °C [-40 – 176 °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
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JAN 2022 (223)
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SVHC > Threshold:  
Not Yet Reviewed

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

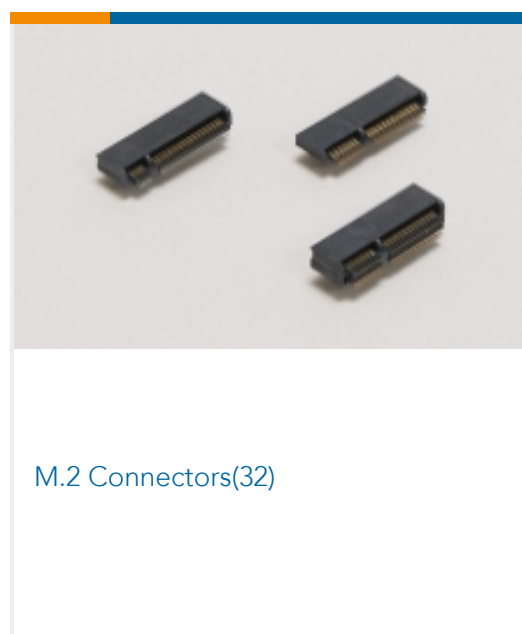
Product Compliance Disclaimer

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



## Also in the Series | M.2 NGFF



## Customers Also Bought



TE Part #2199230-8  
M.2 0.5PITCH 4.2H KEY A 15U" AU



TE Part #5788792-2  
09 HTMSFL PLUG RA 318 (IN,BL)



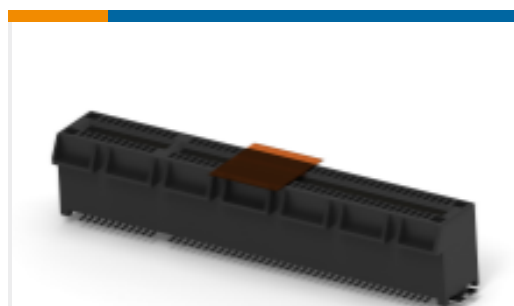
TE Part #1469001-1  
HM-ZD 4PR RECP 80P



TE Part #8-1879336-4  
CPF 0603 1K69 1% 50PPM 1K RL



TE Part #2842102-4  
4P,2MM,BRK HDR,SRVT,SMD,0.1AU,  
TR W/CAP



TE Part #5-2337939-3  
PCIE GEN4 CON,SMT,98POS,30u",  
MYLAR,HT



TE Part #2337992-8  
RJ45 JACK MAG. POE 1GB LED 1X1



TE Part #2198266-2  
SW 360, 6x8, 4.5, Sn

## Documents

### Product Drawings

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

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2199230-3\\_B3.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2199230-3\\_B3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2199230-3\\_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

[1-1773706-1NGFF\\_QRG-SC](#)

### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

2199230-3

M.2 Connectors, Height 4.2 mm [.165 in], Keying Code B, Gold, Board-to-Board, 67  
Position, .02 in [.5 mm] Centerline, Printed Circuit Board, M.2 NGFF



[MD\\_2199230-3\\_06022016111\\_dmtec](#)

English

[MD\\_2199230-3\\_06022016111\\_dmtec](#)

English