

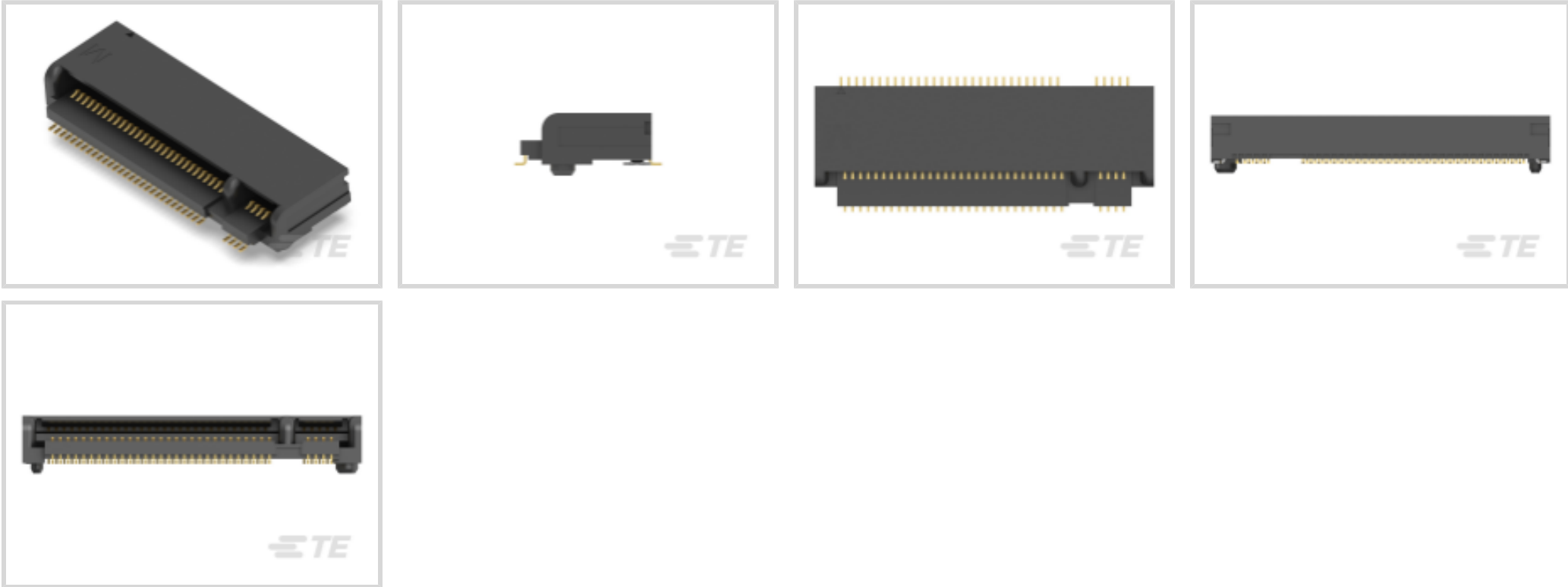


M.2 NGFF

TE Internal #: 1-2199119-5  
3.2 mm [.126 in] Height, M Code, Gold (Au), Power, -40 – 80 °C [-40 – 176 °F], M.2 NGFF, M.2 Connectors

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



Connector Height: 3.2 mm [.126 in]  
Connector & Keying Code: M  
Contact Mating Area Plating Material: Gold (Au)  
Circuit Application: Power  
Operating Temperature Range: -40 – 80 °C [-40 – 176 °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 |
|-------------------|--------|

Body Features

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

Contact Features

|                              |      |
|------------------------------|------|
| 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           |
|                                                      | 15 µin          |
| Contact Mating Area Plating Material                 | Gold (Au)       |

Termination Features

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

Mechanical Attachment

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

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 | 3.2 mm[.126 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 2025 (247)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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

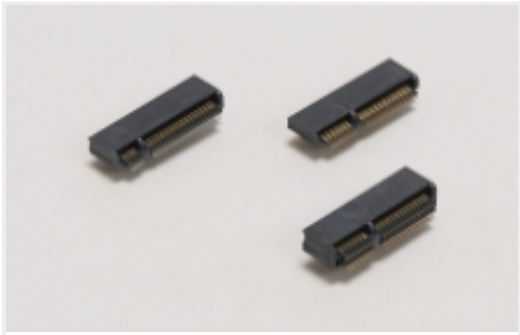
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



TE Part # CAT-M2-C76264  
[M.2 Connectors](#)

Also in the Series | [M.2 NGFF](#)

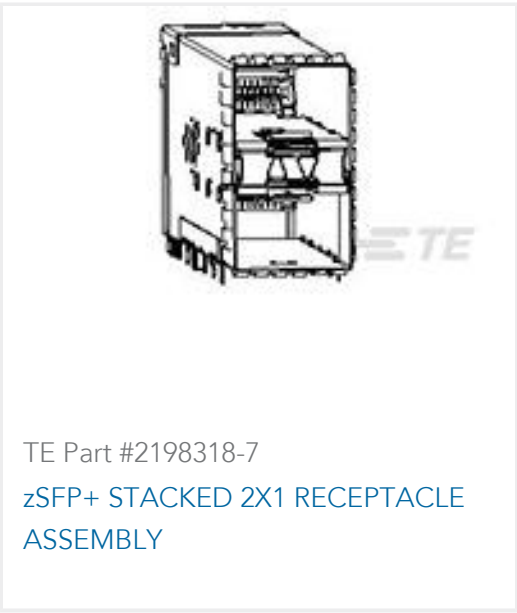


[M.2 Connectors\(32\)](#)

Customers Also Bought







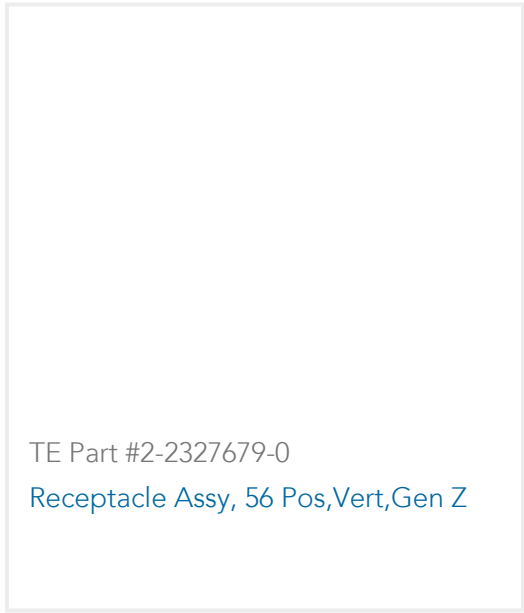
TE Part #2198318-7  
zSFP+ STACKED 2X1 RECEPTACLE ASSEMBLY



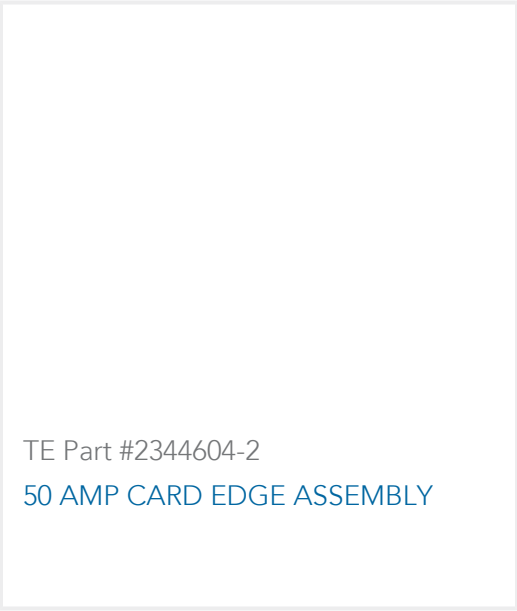
TE Part #2309413-1  
DDR4 SODIMM 260P 9.2H STD



TE Part #2227671-1  
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X3



TE Part #2-2327679-0  
Receptacle Assy, 56 Pos, Vert, Gen Z



TE Part #2344604-2  
50 AMP CARD EDGE ASSEMBLY



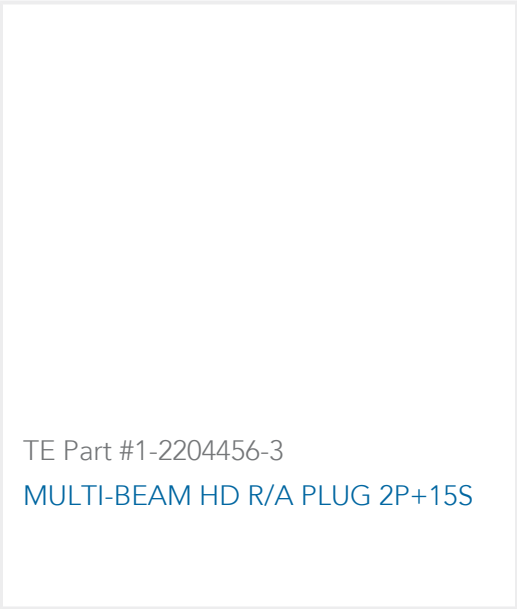
TE Part #1-2340321-2  
ASSY STRADDLE MOUNT 168P 076 SLIVER 2.0



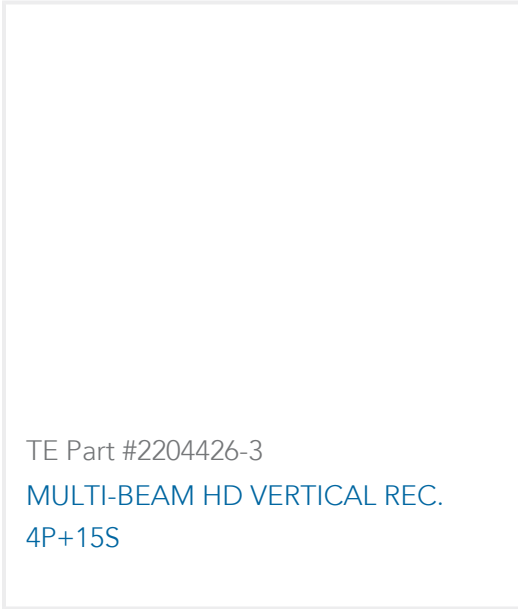
TE Part #2327678-3  
RECEPTACLE ASSY, 84 P, VERT, SLIVER 2.0



TE Part #2204426-2  
MULTI-BEAM HD VERTICAL REC. 2P+15S



TE Part #1-2204456-3  
MULTI-BEAM HD R/A PLUG 2P+15S



TE Part #2204426-3  
MULTI-BEAM HD VERTICAL REC. 4P+15S

Documents

Product Drawings  
M.2 0.5PITCH 3.2H KEY M 15U" AU  
English

CAD Files  
3D PDF  
3D  
Customer View Model  
ENG\_CVM\_CVM\_1-2199119-5\_C.2d\_dxf.zip  
English  
Customer View Model  
ENG\_CVM\_CVM\_1-2199119-5\_C.3d\_igs.zip  
English  
Customer View Model  
ENG\_CVM\_CVM\_1-2199119-5\_C.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

Application Specification

English