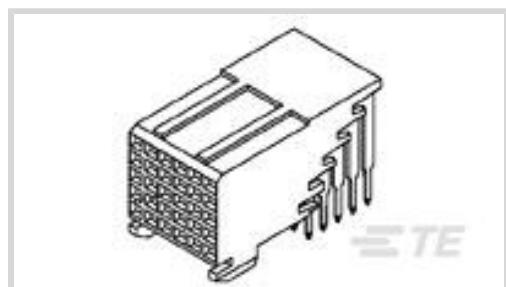


Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Right Angle**

Connector System: **Board-to-Board**

Number of Positions: **30**

Centerline (Pitch): **2 mm [ .079 in ]**

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Series                            | Signal                |
| PCB Connector Assembly Type       | PCB Mount Receptacle  |
| Connector System                  | Board-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                              |             |
|------------------------------|-------------|
| Sequencing                   | No          |
| Number of Rows               | 5           |
| Stackable                    | No          |
| Number of Signal Positions   | 30          |
| PCB Mount Orientation        | Right Angle |
| Number of Positions          | 30          |
| Board-to-Board Configuration | Right Angle |

### Electrical Characteristics

|                                       |          |
|---------------------------------------|----------|
| Dielectric Withstanding Voltage (Max) | 1000 VAC |
| Insulation Resistance                 | 5 MΩ     |
| Operating Voltage                     | 30 VAC   |
| Impedance                             | 30 Ω     |

### Contact Features

|   |   |
|---|---|
| Contact Layout  | Matrix  |
| PCB Contact Termination Area Plating Material Thickness | 3.81 $\mu\text{m}$ [149.9997 $\mu\text{in}$ ] |
| Contact Mating Area Plating Material Finish             | Matte   |
| Contact Configuration                                   | Dual Beam                                     |
| PCB Contact Termination Area Plating Material           | Tin   |
| Contact Base Material                                   | Phosphor Bronze                               |
| Contact Mating Area Plating Material                    | Gold  |
| Contact Mating Area Plating Material Thickness          | .76 $\mu\text{m}$ [30 $\mu\text{in}$ ]        |
| Contact Type  | Socket  |
| Contact Current Rating (Max)                            | 3 A   |

#### Termination Features

|   |                       |
|---|-----------------------|
| Termination Post & Tail Length              | 3.53 mm[.139 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

#### Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| PCB Mount Alignment Type | Locating Posts |
| Mating Alignment         | With           |
| Mating Alignment Type    | Polarization   |
| PCB Mount Retention      | Without        |
| PCB Mount Alignment      | With           |
| Connector Mounting Type  | Board Mount    |

#### Housing Features

|                    |                              |
|--------------------|------------------------------|
| Centerline (Pitch) | 2 mm[.079 in]                |
| Housing Color      | Natural                      |
| Housing Material   | LCP (Liquid Crystal Polymer) |

#### Dimensions

|                             |                    |
|-----------------------------|--------------------|
| Connector Height            | 13.3 mm[.52269 in] |
| PCB Thickness (Recommended) | 1.3 mm[.76 in]     |

#### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 125 °C[-67 – 257 °F] |
|-----------------------------|----------------------------|

#### Operation/Application

|                        |                |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
| Circuit Application    | Power & Signal |

## Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

## Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 48   |
| Packaging Method   | Tube |

## Product Compliance

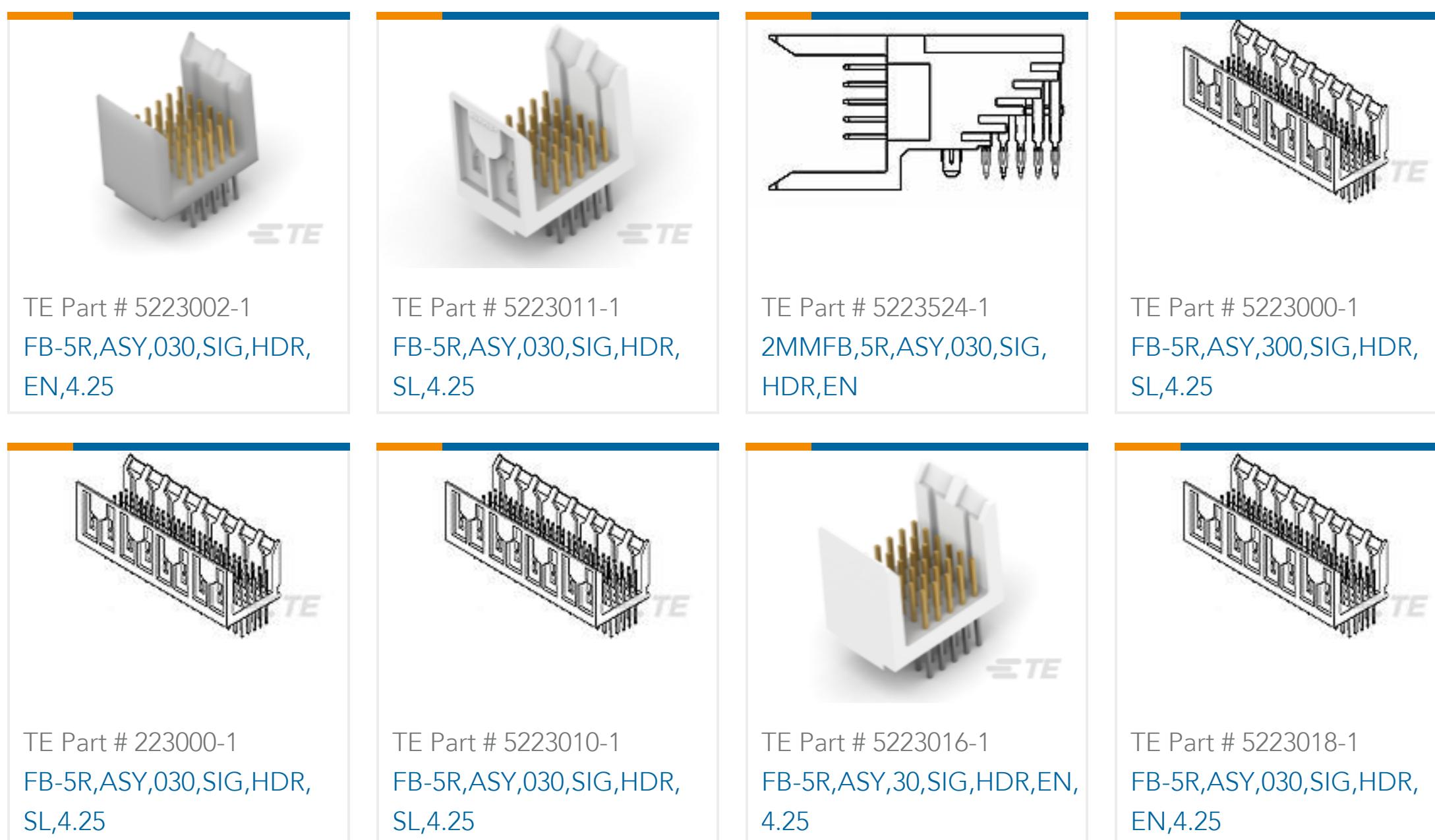
For compliance documentation, visit the product page on [TE.com](http://TE.com)>

|   |  |
|---|--|
| 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 2019<br>(197)<br>Candidate List Declared Against: JAN 2019<br>(197) |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                  |
| Solder Process Capability                     | Pin-in-Paste capable to 260°C  |

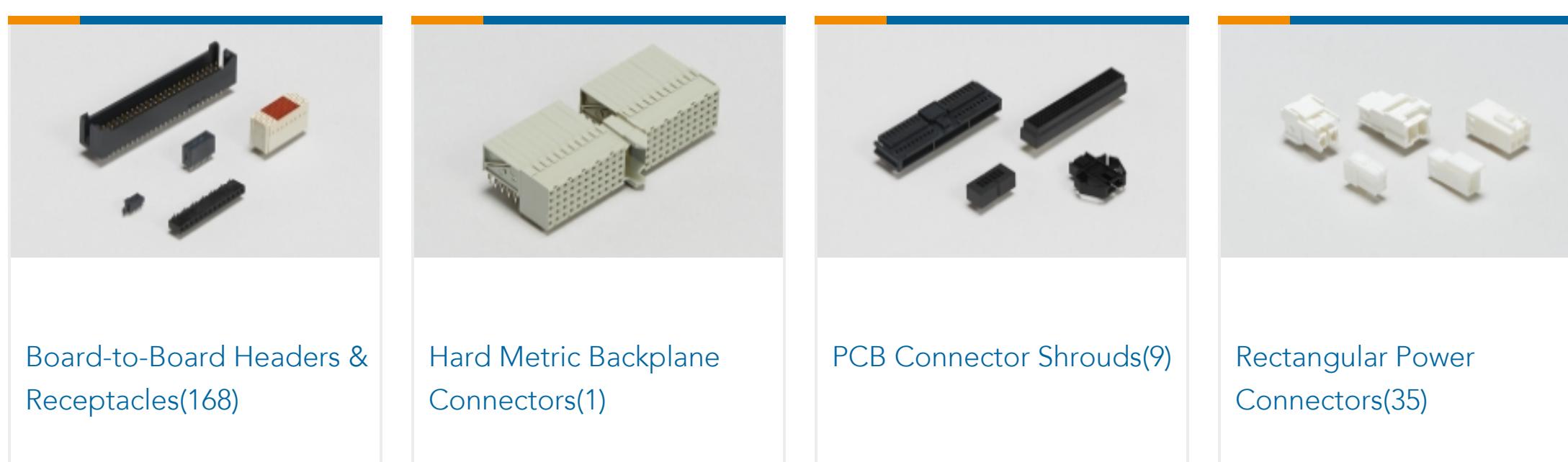
### Product Compliance Disclaimer

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 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.

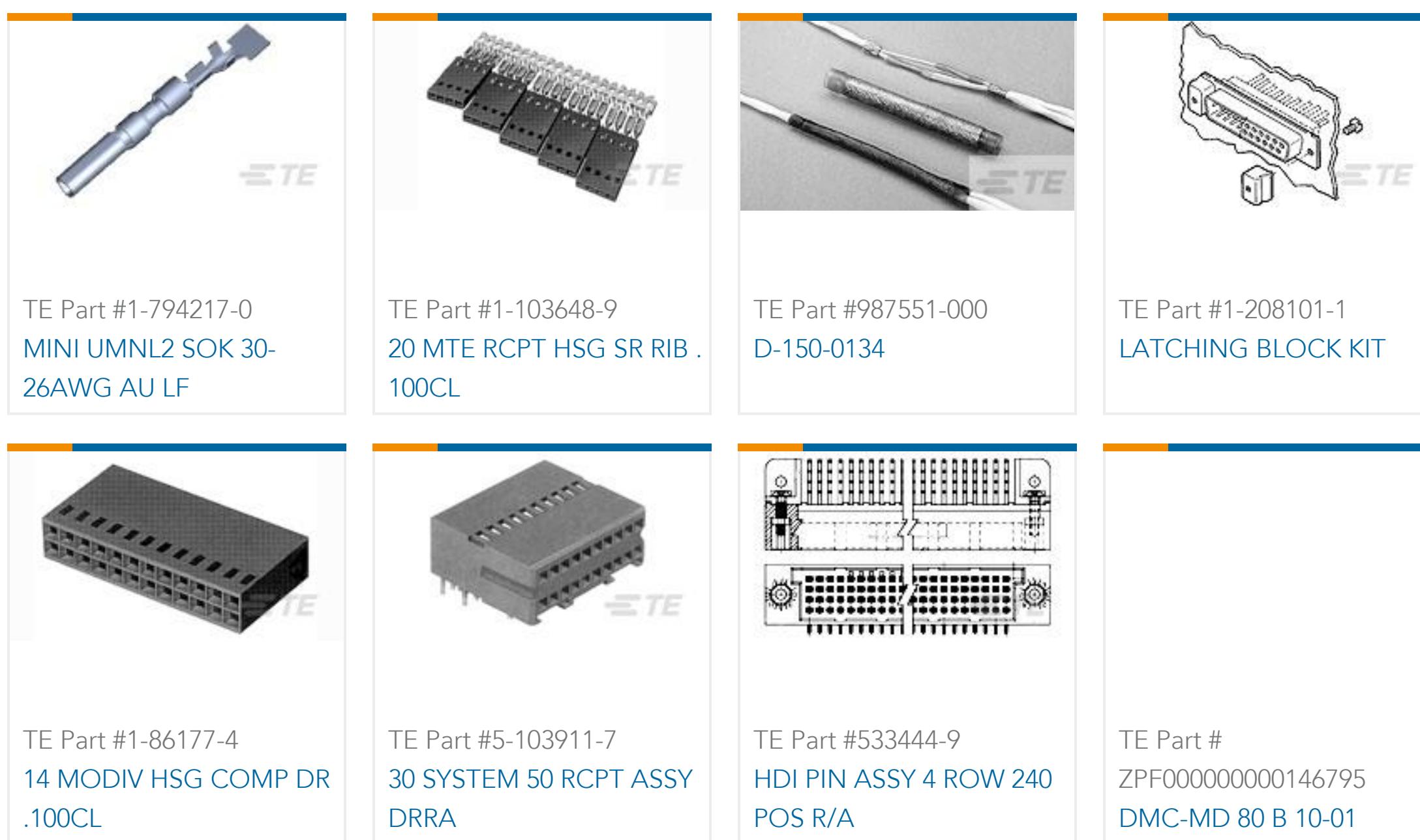
## Compatible Parts

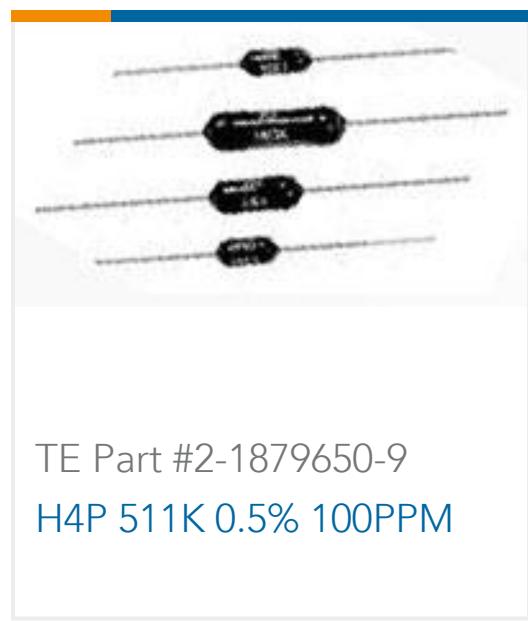


## Also in the Series | Z-PACK Future Bus+



## Customers Also Bought





TE Part #2-1879650-9  
H4P 511K 0.5% 100PPM

## Documents

### Product Drawings

[FB-5R,ASY,300,SIG,REC,SL,3.53](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5223007-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5223007-1\\_A.3d\\_jgs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5223007-1\\_A.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English