

2302790-1 ✓ ACTIVE

MULTIGIG RT | MULTIGIG RT 3

TE Internal #: 2302790-1

High Speed Backplane Connectors, 144 Position, Mating Alignment, Keyed Mating Alignment Type, 9 Row, 16 Column, PCB Mount Receptacle, MULTIGIG RT 3

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Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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

Number of Positions: **144**

Row-to-Row Spacing: **1.8 mm [ .071 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

## Features

### Product Type Features

|                                       |                       |
|---------------------------------------|-----------------------|
| Applied to Printed Circuit Board Type | Backplane             |
| Connector System                      | Board-to-Board        |
| PCB Connector Assembly Type           | PCB Mount Receptacle  |
| Shroud Style                          | Unshrouded            |
| Connector & Contact Terminates To     | Printed Circuit Board |

### Configuration Features

|                        |                       |
|------------------------|-----------------------|
| Card Slot Centerline   | 20.3 mm [.8 in]       |
| Backplane Architecture | Traditional Backplane |
| Number of Positions    | 144                   |
| Number of Rows         | 9                     |
| Number of Columns      | 16                    |
| PCB Mount Orientation  | Vertical              |
| Guide Location         | Unguided              |

### Signal Characteristics

|   |              |
|---|--------------|
| Differential Impedance                  | 100 $\Omega$ |
| Number of Differential Pairs per Column | 2            |

### Contact Features



|                              |     |
|------------------------------|-----|
| Contact Current Rating (Max) | 1 A |
|------------------------------|-----|

### Termination Features

|   |                          |
|---|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---|--------------------------|

### Mechanical Attachment

|                  |      |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

|                       |       |
|-----------------------|-------|
| Mating Alignment Type | Keyed |
|-----------------------|-------|

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

### Housing Features

|                          |   |
|--------------------------|---|
| Number of Shrouded Sides | 0 |
|--------------------------|---|

|                  |                                   |
|------------------|-----------------------------------|
| Housing Material | LCP - GF (Liquid Crystal Polymer) |
|------------------|-----------------------------------|

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 1.8 mm[.071 in] |
|--------------------|-----------------|

### Dimensions

|                    |                 |
|--------------------|-----------------|
| Row-to-Row Spacing | 1.8 mm[.071 in] |
|--------------------|-----------------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 125 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

## Product Compliance

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

|                              |               |
|------------------------------|---------------|
| EU RoHS Directive 2011/65/EU | Not Compliant |
|------------------------------|---------------|

|                             |               |
|-----------------------------|---------------|
| EU ELV Directive 2000/53/EC | Not Compliant |
|-----------------------------|---------------|

|   |                                      |
|---|--------------------------------------|
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
|---|--------------------------------------|

|  |   |
|--|---|
| EU REACH Regulation (EC) No. 1907/2006 | <p>Current ECHA Candidate List: JAN 2023 (233)<br/> Candidate List Declared Against: JAN 2022 (223)<br/> SVHC &gt; Threshold:<br/> Pb (13% in Component Part)</p> |
|--|---|

#### Article Safe Usage Statements:

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

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

|                           |  |
|---------------------------|--|
| Solder Process Capability | Not applicable for solder process capability |
|---------------------------|--|



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 # 2000676-1  
Keyed Guide Pin, Machined, Vita 46

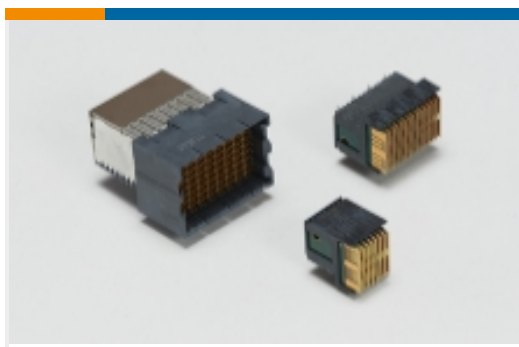


TE Part # 2000713-1  
RA Keyed Guide Mod, Vita 46, Machined



TE Part # 2302785-1  
RA PLUG ASSY, 7ROW, CENTER, VPX, MG RT3

### Also in the Series | MULTIGIG RT 3



High Speed Backplane Connectors(31)

### Customers Also Bought



TE Part #2102735-1  
BP, Half Left End, MULTIGIG RT 2R



TE Part #2102737-1  
BP, Right End, MULTIGIG RT 2R



TE Part #1410956-1  
MULTIGIG RT GUIDE PIN KIT ASSEMBLY



TE Part #2313238-1  
VERTRECASSY, J0/J1A, MULTIGIG RT3



TE Part #2302791-1  
VERTRECASSY,CENTER,RTM,  
MULTIGIG RT3



TE Part #2309390-1  
VERT RECPT, MULTI-BEAM XLE, VITA  
62



TE Part #2332816-1  
RA Plug Assy Left End Multigig RT 3



TE Part #2332817-1  
Vert RCPT Left End Half Multigig RT 3



TE Part #2371552-2  
VERTRECASSY,RIGHTEND,MULTIGIG  
RT2-R

## Documents

### Product Drawings

[VERTRECASSY,RIGHTEND,MULTIGIG RT3](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2302790-1\\_3.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2302790-1\\_3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2302790-1\\_3.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[SOSA Aligned Interconnect Solutions](#)

English

[MULTIGIG RT 3 and RT 2-S Connectors](#)

English

### Product Specifications

[Product Specification](#)

English

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