



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



Number of Positions: 112
Row-to-Row Spacing: 1.35 mm [.053 in]
Mating Alignment: With
Mating Alignment Type: Guide Slot
Number of Rows: 7

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Backplane Module Type | Center |
| Compatible with PCB Type | Daughtercard |
| Connector System | Board-to-Board |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type | PCB Mount Header |
| Shroud Style | Fully Shrouded |

Configuration Features

| | |
|----------------------------|-----------------------|
| Number of Ground Positions | 31 |
| Card Slot Centerline | 20.3 mm[.8 in] |
| Number of Pairs | 20 |
| Backplane Architecture | Traditional Backplane |
| Number of Positions | 112 |
| Number of Rows | 7 |
| Number of Columns | 16 |
| PCB Mount Orientation | Right Angle |
| Guide Location | Right |

Electrical Characteristics

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|--|--|
| | |
|--|--|



| | |
|-------------------|--------------|
| Impedance | 100 Ω |
| Operating Voltage | 50 VAC |

Signal Characteristics

| | |
|---|----------------|
| Differential Impedance | 100 Ω |
| Number of Differential Pairs per Column | 2 |
| Data Rate | \leq 12 Gb/s |

Body Features

| | |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

| | |
|---|---------------------------|
| Contact Mating Area Length | 2.9 mm[.8 in] |
| PCB Contact Termination Area Plating Material Thickness | 1.27 μ m[50 μ in] |
| Contact Layout | Inline |
| Contact Type | Pin |
| Contact Underplating Material Thickness | 1.27 μ m[50 μ in] |
| Contact Mating Area Plating Material Thickness | 1.27 μ m[50 μ in] |
| Contact Mating Area Plating Material | Gold |
| PCB Contact Termination Area Plating Material Finish | Bright |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin-Lead |
| Contact Base Material | Copper |
| Contact Current Rating (Max) | 1 A |

Termination Features

| | |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 1.4 mm[.055 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

Mechanical Attachment

| | |
|--------------------------|-----------------------|
| Guide Hardware | With |
| Mating Retention | With |
| PCB Mount Alignment | With |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Action/Compliant Tail |
| Mating Alignment | With |
| Mating Alignment Type | Guide Slot |



| | |
|---|--|
| Connector Mounting Type | Board Mount |
| Housing Features | |
| Number of Shrouded Sides | 2 |
| Housing Material | LCP (Liquid Crystal Polymer) |
| Centerline (Pitch) | 1.8 mm[.07 in] |
| Dimensions | |
| Connector Length | 28.68 mm[1.129 in] |
| Connector Height | 18.4 mm[.724 in] |
| PCB Thickness (Recommended) | 1.6 – 4 mm[.062 – .157 in] |
| PCB Hole Diameter | .46 mm[.018 in] |
| Row-to-Row Spacing | 1.35 mm[.053 in] |
| Usage Conditions | |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
| Operation/Application | |
| Durability Rating | 500 Cycles |
| Circuit Application | Power & Signal |
| Packaging Features | |
| Packaging Method | Tube |
| 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 | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Pb (7% in contact plating) 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 | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources. |
| 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

Also in the Series | MULTIGIG RT 2

High Speed Backplane Connectors(40)

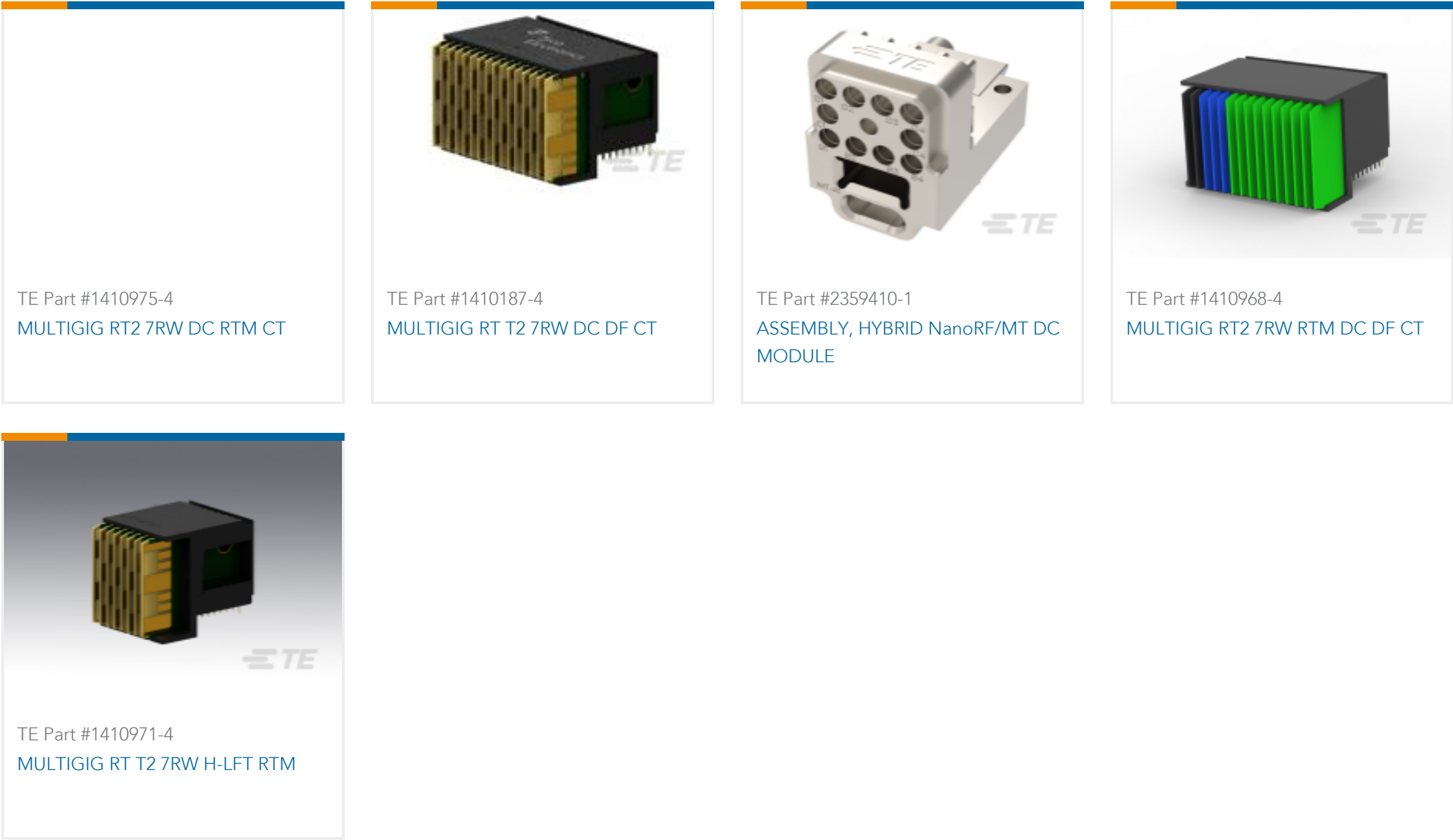
Customers Also Bought

TE Part #1-1469492-8
MULTIGIG RT 9MM GUIDE/ESD 315 DEG

TE Part #1-1469492-9
MULTIGIG RT 9MM GUIDE/ESD UNKE

TE Part #CONMCX002
MCX Jack 50 Ohm PCB Through Hole

TE Part #2198339-5
zSFP+ Stacked Cage Assembly: EMI Spring



Documents

Product Drawings
MULTIGIG RT T2 7RW DC DF CT
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1410326-3_B.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_1410326-3_B.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_1410326-3_B.3d_stp.zip
English

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Datasheets & Catalog Pages
SOSA Aligned Interconnect Solutions
English