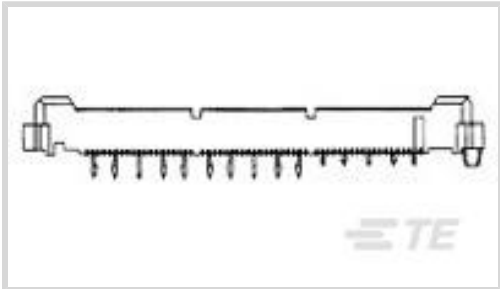




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **190**

Centerline (Pitch): **.64 mm, 24 mm [ .945 in ]**

PCB Mount Orientation: **Vertical**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Ground Feature Type               | Ground Bus            |
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

Configuration Features

|                              |          |
|------------------------------|----------|
| Number of Columns            | 95       |
| Number of Signal Positions   | 190      |
| Number of Power Positions    | 5        |
| Stackable                    | Yes      |
| Number of Positions          | 190      |
| PCB Mount Orientation        | Vertical |
| Board-to-Board Configuration | Parallel |

Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Operating Voltage                     | 5 VDC   |
| Impedance                             | 50 Ω    |
| Insulation Resistance                 | 2 MΩ    |
| Dielectric Withstanding Voltage (Max) | 500 VAC |



Signal Characteristics

|                        |         |
|------------------------|---------|
| Data Rate              | 10 Gb/s |
| Differential Signaling | Yes     |

Body Features

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

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 6.35 µm[150 – 250 µin] |
| Contact Shape & Form                                    | Dual Beam                     |
| Contact Layout                                          | Inline                        |
| Contact Mating Area Length                              | .89 mm[.035 in]               |
| Contact Base Material                                   | Copper Alloy                  |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material Thickness          | .76 µm[29.92 µin]             |
| Contact Mating Area Plating Material                    | Gold (Au)                     |
| Contact Type                                            | Pin                           |
| Contact Current Rating (Max)                            | 11.5 A                        |

Termination Features

|                                               |                 |
|-----------------------------------------------|-----------------|
| Rectangular Termination Post & Tail Width     | .53 mm[.021 in] |
| Rectangular Termination Post & Tail Thickness | .2 mm[.008 in]  |
| Termination Method to PCB                     | Surface Mount   |

Mechanical Attachment

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

Housing Features

|                       |                        |
|-----------------------|------------------------|
| Mating Entry Location | Top                    |
| Centerline (Pitch)    | .64 mm, 24 mm[.945 in] |
|                       |                        |



|                  |       |
|------------------|-------|
| Housing Material | Matte |
|------------------|-------|

Dimensions

|                             |                           |
|-----------------------------|---------------------------|
| Connector Width             | 5.28 mm[.208 in]          |
| Connector Height            | 12.29 mm[.484 in]         |
| Connector Length            | 76.2 mm[3 in]             |
| Stack Height                | 12.57 mm, 21.6 mm[.85 in] |
| PCB Thickness (Recommended) | 1.57 mm[.8 in]            |

Usage Conditions

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

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                                             |                        |
|---------------------------------------------|------------------------|
| Compatible With Agency/Standards Products   | CSA, UL                |
| UL Rating                                   | Listed                 |
| Compatible With Approved Standards Products | CSA 1195944, UL E28476 |
| UL Flammability Rating                      | UL 94V-0               |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 168  |
| Packaging Method   | Tape |

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold                                                                        |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JAN 2025 (247)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                               |
| Solder Process Capability                     | Reflow solder 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 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>

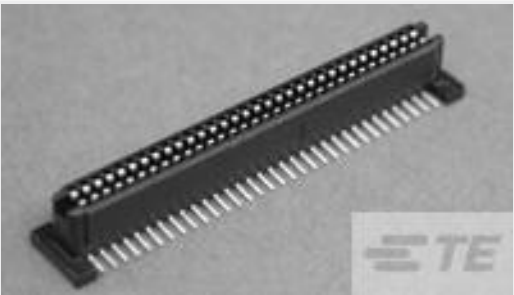
Customers Also Bought



TE Part #3-1415020-1  
PT570N20



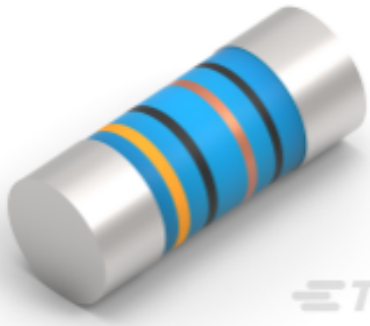
TE Part #1-1825006-9  
GDS10S04=DIP SW,SLIDE,SMT



TE Part #5146893-2  
1FHR,84,30A/S,S,C,S08,09,10



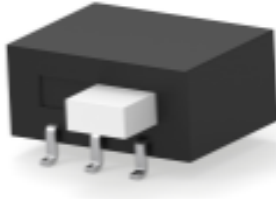
TE Part #5-104076-2  
60 SYS50 HDR DRST SHRD W/SL SN



TE Part #2176314-4  
MELF SMA\_A 180R 0.1% 15PPM 0102 0.3W



TE Part #1-928836-2  
MOD2 PIN WITH A-PIN L/P



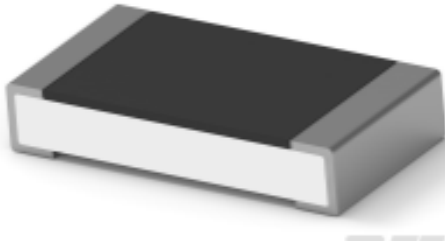
TE Part #1-1437581-1  
ASE22RL=AUTOSLIDE DP



TE Part #5-103911-3  
60 SYSTEM 50 RCPT ASSY DRRA



TE Part #7-2176246-6  
CRGS2512 5% 1M8



TE Part #4-2176391-7  
RQ 1206 37K4 0.1% 10PPM 5K RL

Documents

Product Drawings

MICT,PLG,190,ASY,.025,TAPE PKG

English

Product Specifications



Application Specification

English