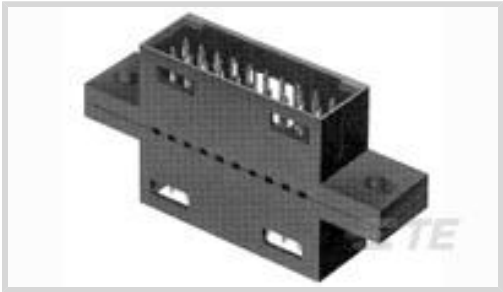




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **50**

Number of Rows: **2**

Centerline (Pitch): **2.54 mm [ .1 in ]**

Features

Product Type Features

|                        |                    |
|------------------------|--------------------|
| PCB Connector Type     | PCB Mount Header   |
| Connector System       | Board-to-Board     |
| Header Type            | Fully Shrouded     |
| Connector Product Type | Connector Assembly |

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 50           |
| Number of Rows                   | 2            |
| PCB Mount Orientation            | Vertical     |
| Board-to-Board Configuration     | Parallel     |

Electrical Characteristics

|                                       |          |
|---------------------------------------|----------|
| Insulation Resistance                 | 5000 MΩ  |
| Dielectric Withstanding Voltage (Max) | 750 Vrms |

Body Features

|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| Primary Product Color | Black    |

Contact Features

|  |        |
|--|--------|
|  | 30 μin |
|--|--------|



|                                                |                 |
|------------------------------------------------|-----------------|
| Contact Underplating Material                  | Nickel          |
| Mating Square Post Dimension                   | .64 mm[.025 in] |
| Contact Shape & Form                           | Square          |
| Contact Base Material                          | Phosphor Bronze |
| Contact Mating Area Plating Material Thickness | .762 μm[30 μin] |
| Contact Mating Area Plating Material           | Gold (Au)       |
| Contact Type                                   | Pin             |
| Contact Current Rating (Max)                   | 3 A             |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 8.38 mm[.33 in]       |
| Square Termination Post & Tail Dimension | .64 mm[.025 in]       |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

|                         |               |
|-------------------------|---------------|
| Mating Retention Type   | Detent Window |
| Mating Retention        | With          |
| Mating Alignment Type   | Polarization  |
| Connector Mounting Type | Panel Mount   |
| Mating Alignment        | With          |
| PCB Mount Alignment     | Without       |
| PCB Mount Retention     | Without       |

Housing Features

|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
| Housing Material   | Nylon GF       |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Row-to-Row Spacing          | 2.54 mm[.1 in]   |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | Standard                   |
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

Operation/Application

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

Industry Standards



|                                             |                       |
|---------------------------------------------|-----------------------|
| Compatible With Agency/Standards Products   | CSA                   |
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |
| UL Flammability Rating                      | UL 94V-0              |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 24   |
| Packaging Method   | Tray |

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: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                          |
| Solder Process Capability                     | Wave solder capable to 240°C                                                                                                    |

Product Compliance Disclaimer

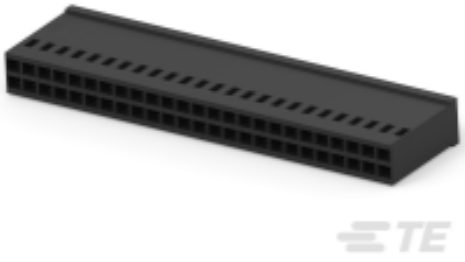
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 3-87456-9  
50 MODIV HSG COMP DR .100CL



TE Part # 2-86177-1  
50 MODIV HSG COMP DR .100CL



TE Part # 4-87977-8  
50 MODIV HSG COMP DR .100 POL

Also in the Series | AMPMODU Headers



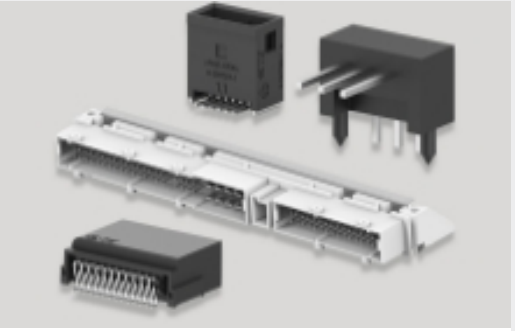
Automotive Headers(3)



Automotive Signal & Power Headers(3)



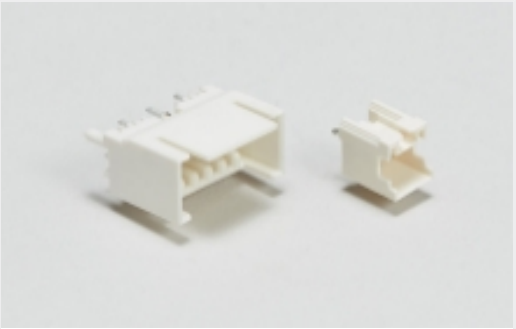
Connector Contacts(15)



PCB Headers & Receptacles(1173)



Rectangular Power Connectors(25)



Wire-to-Board Headers & Receptacles (78)

Customers Also Bought



TE Part #ANT-915-NUB-SMA  
Antenna Short 915 SMA Plug



TE Part #CSI-SGFB-100-UFFR  
SMA to U.FL/MHF1 100mm 1.13 OD



TE Part #M902-2053  
COMP NUT, 6/9/24SZ,CBL SZ .430-.570,HD10



TE Part #114163-000  
CWT-9003



TE Part #M902-2243  
BKSHL, 24SZ, CBL SZ .430-570, HDP L015



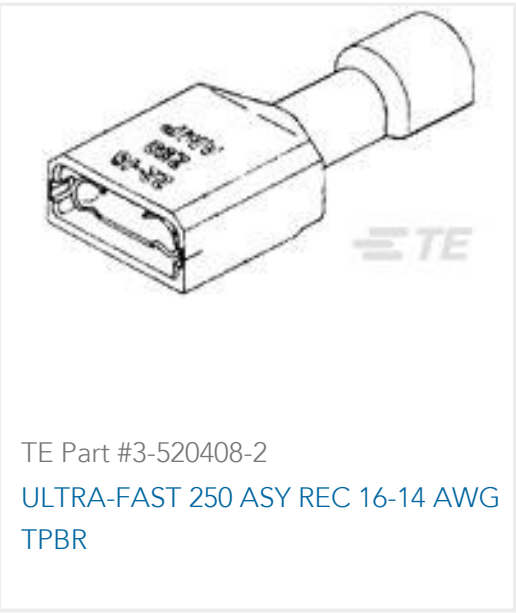
TE Part #NB17584001  
RT-375-3/4-X-SP



TE Part #HDP26-24-23SN-L015  
PLG, 23P, BLK, N, THD, 16, S



TE Part #31164  
TERMINAL,BUDG R 16-14 1/4



Documents

Product Drawings

50 MODII HDR DRST SHRD .100CL

English

CAD Files

3D PDF

English

Customer View Model

ENG\_CVM\_2-87605-1\_H.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_2-87605-1\_H.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_2-87605-1\_H.3d\_stp.zip

English

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

Datasheets & Catalog Pages

AMPMODU\_INTERCONNECTION\_SYSTEM\_SECTION5

English

Agency Approvals

CSA Certificate

English