# 5148020-5 ✔ ACTIVE

EUROCARD

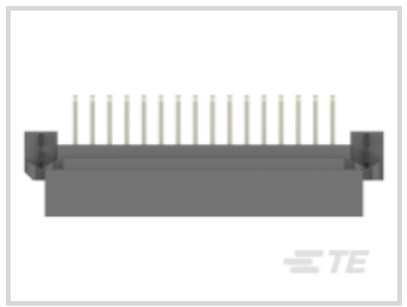
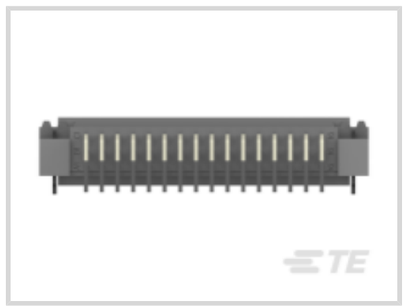
TE Internal #: 5148020-5

Plug, Board-to-Board, 48 Position, 2.54 mm [.1 in] Centerline, Printed Circuit Board, 3 Row, Right Angle, 16 Column, Eurocard Connectors

View on TE.com >

Connectors > PCB Connectors > Backplane Connectors > Eurocard Connectors




Connector & Housing Type: **Plug**

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

Termination Post & Tail Length: **2.64 mm [ .104 in ]**

Number of Positions: **48**

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

## Features

### Product Type Features

| | |
|---|---|
| Connector & Housing Type | Plug |
| Connector System | Board-to-Board |
| Connector & Contact Terminates To | Printed Circuit Board |
| DIN Size | Half |
| DIN Level | II |

### Configuration Features

| | |
|---|---|
| Mating & Unmating Configuration | Make First / Break Last |
| Number of Positions | 48 |
| Number of Rows | 3 |
| PCB Mount Orientation | Right Angle |
| Number of Columns | 16 |
| Rows Loaded | A, C |
| Number of Signal Positions | 20 |

### Contact Features

| | |
|---|---|
| Contact Base Material | Copper Alloy |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Type | Pin |
| Contact Current Rating (Max) | 1.5 A |

## Termination Features

| | |
|---|---|
| Termination Method to PCB | Through Hole - Solder |
| Termination Post & Tail Length | 2.64 mm[.104 in] |

## Mechanical Attachment

| | |
|---|---|
| Connector Mounting Type | Board Mount |
| Panel Mount Feature | With |
| Mating Retention | Without |
| PCB Mount Retention Type | Boardlock |
| Mating Alignment Type | Polarization |
| Mating Alignment | With |
| PCB Mount Alignment | With |
| PCB Mount Retention | With |

## Housing Features

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

## Dimensions

| | |
|---|---|
| PCB Thickness (Recommended) | 5.41 mm |
| Connector Height | 12.62 mm |
| Row-to-Row Spacing | 2.54 mm[.1 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

## Operation/Application

| | |
|---|---|
| Shielded | No |
| Circuit Application | Signal |

## Industry Standards

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

## Packaging Features

| | |
|---|---|
| Packaging Method | Tray |

## Product Compliance

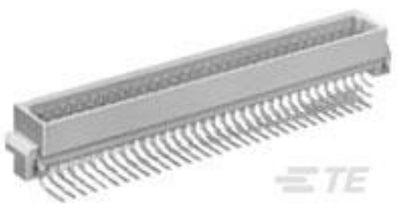
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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 | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Reflow solder capable to 260°C |

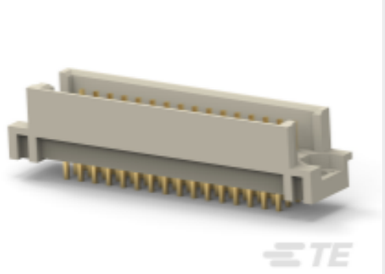
Product Compliance Disclaimer

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

## Compatible Parts



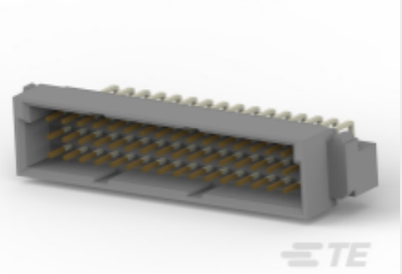
TE Part # 1393644-9
V42254B1100C480=PC612 MESSERLE



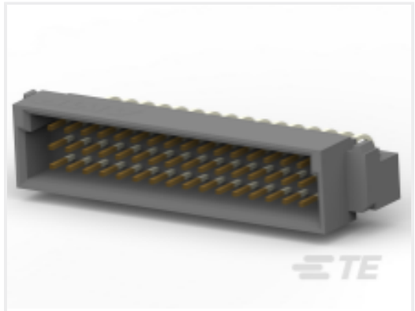
TE Part # 2-1393659-6
V42254B1201R480=PC612 MESSERLE



TE Part # 5535091-5
ASSEMBLY,RECEPTACLE,EUROCARD, T



TE Part # 5650478-5
ASSY,PIN,EUROCARD,TYPE C/2,LEA



TE Part # 5650948-5
ASSY,PIN,EUROCARD,TYPE C/2,LEA



TE Part # 5536407-5
ASSY,PIN,EUROCARD,TYPE C/2,LEAD-FREE,48



TE Part # 5148083-1
048 EURO TYPE C PIN MFBL ASSY



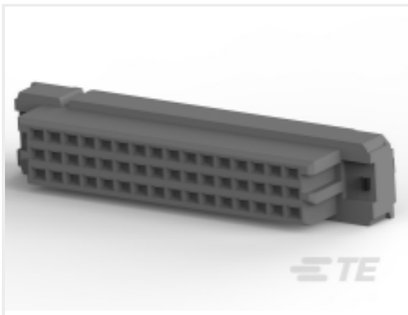
TE Part # 5148474-1
ASSY,PIN,EUROCARD,TYPE R/2,LEAD-FREE,48



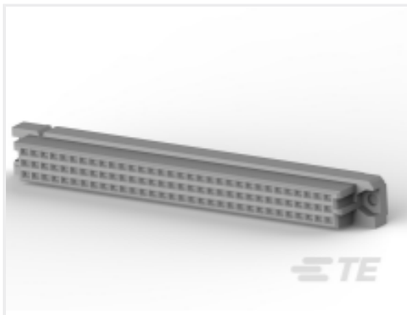
TE Part # 1-5536397-5
ASSY,RECEPT,EURO,TYPE C/2,LEAD



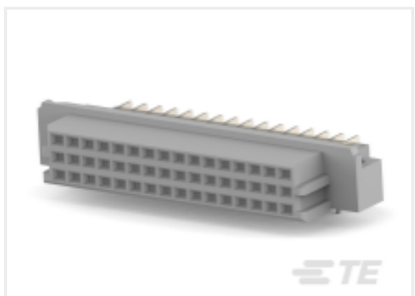
TE Part # 5650916-5
ASSY,PIN,EUROCARD,TYPE C/2,LEA



TE Part # 5536397-5
ASSY,RECEPT,EURO,TYPE C/2,LEAD



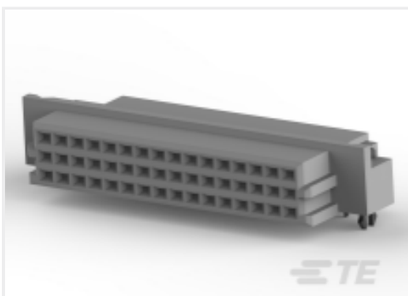
TE Part # 5535071-4
ASSY,RECEPTACLE,EUROCARD,TYPE



TE Part # 5650868-5
ASSY,RECEPTACLE,EUROCARD,TYPE R/2,LEAD-F



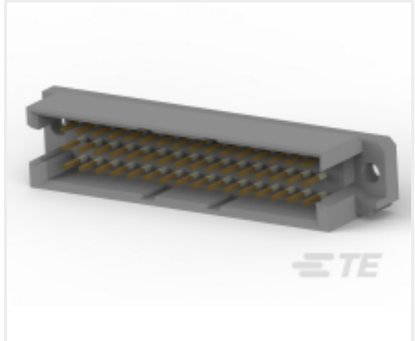
TE Part # 5536484-5
ASSY,RECEPT,EURO,TYPE C/2,L-FR



TE Part # 5650893-5
ASSY,RECEPT,EUROCARD,TYPE R/2,L-FREE,48,



TE Part # 926040-2
48P MOD 4 HSG



TE Part # 5650479-5
ASSY,PIN,EUROCARD,TYPE R/2,LEAD-FREE,48



TE Part # 5148098-5
ASSY, EURO, TYPE R, RECEPT, W/



TE Part # 1393642-9
V42254B2240C480=PC612 FEDERLEI



TE Part # 216398-4
48P.IEC-C MALE CONN

## Customers Also Bought



TE Part #214836-E
STVC 96 F ABC VVV 7-00 TL 4,0 * 247 E007



TE Part #384063-E
STVC 96 M ABC VVV 4-00 0606 * * 247 E007



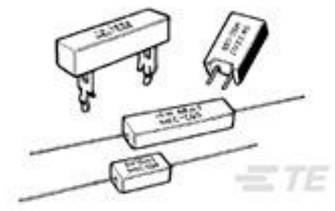
TE Part #531230-2
SHUNT, .200 C/L,LP,2 POS, 15AU



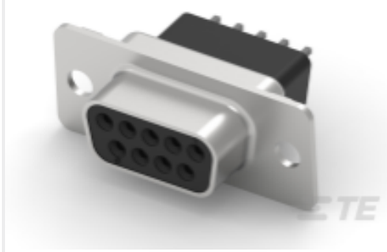
TE Part #796690-5
TERMI-BLOK PCB MOUNT 5P



TE Part #4-1437664-1
NC6-P108-08=NC6 ASSEMBLY



TE Part #1623795-6
SQP10 22R 5% WIRE



TE Part #CAT-025-DRAVS1274
D-Sub Receptacle Assembly: Vertical, Shell Size 1, 2.74mm

TE Part #144768-E
ERMEZT FST GSE NIP 1 * * * 9,7 FUEHRUNGS

TE Part #374219-E
ERMBGR FBUK GSE * M4 9999 ERMET-BAUSATZ

## Documents

### Product Drawings

ASSY,PIN,EURO,"C/2",L-FREE,48

English

ASSY,PIN,EURO,"C/2",L-FREE,48

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5148020-5_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5148020-5_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5148020-5_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Product Specifications

Application Specification

English

### Agency Approvals

UL

English