



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **16**

Number of Rows: **2**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Type                | PCB Mount Receptacle  |
| Connector System                  | Board-to-Board        |
| Header Type                       | Fully Shrouded        |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

Configuration Features

|                                  |                          |
|----------------------------------|--------------------------|
| Number of Columns                | 8                        |
| Number of Loaded Positions       | 16                       |
| Connector Contact Load Condition | Fully Loaded             |
| Board-to-Board Configuration     | Co-Planar, Perpendicular |
| PCB Mount Orientation            | Right Angle              |
| Number of Positions              | 16                       |
| Number of Rows                   | 2                        |

Electrical Characteristics



|                                       |          |
|---------------------------------------|----------|
| Insulation Resistance                 | 100 MΩ   |
| Contact Resistance                    | 35 mΩ    |
| Dielectric Withstanding Voltage (Max) | 500 Vrms |

Body Features

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

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| PCB Contact Termination Area Plating Material Thickness | 4 – 6 μm[157.48 – 236.22 μin] |
| Contact Layout                                          | Matrix                        |
| Contact Base Material                                   | Copper Alloy                  |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material                    | Gold (Au)                     |
| Contact Type                                            | Receptacle                    |
| Contact Current Rating (Max)                            | 2.33 A                        |

Termination Features

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

Mechanical Attachment

|                                   |                         |
|-----------------------------------|-------------------------|
| Mounting Alignment Feature Length | .7 mm[.027 in]          |
| Mating Retention                  | With                    |
| Mating Alignment Type             | Blindmate, Polarization |
| PCB Mount Alignment Type          | Locating Posts          |
| PCB Mount Retention               | With                    |
| PCB Mount Alignment               | With                    |
| Connector Mounting Type           | Board Mount             |
| Mating Alignment                  | With                    |

Housing Features

|                    |                |
|--------------------|----------------|
| Housing Material   | LCP            |
| Centerline (Pitch) | .8 mm[.031 in] |

Dimensions

|                    |                  |
|--------------------|------------------|
| Row-to-Row Spacing | 1.25 mm[.049 in] |
| Connector Height   | 4.4 mm[.173 in]  |
| Connector Length   | 10.6 mm[.417 in] |

Usage Conditions



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

Operation/Application

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

Industry Standards

|                                           |          |
|-------------------------------------------|----------|
| Compatible With Agency/Standards Products | IEC, UL  |
| UL Flammability Rating                    | UL 94V-0 |

Packaging Features

|                  |             |
|------------------|-------------|
| Packaging Method | Tape & Reel |
|------------------|-------------|

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                   | Not Yet Reviewed                                                                                                               |
| 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: JAN 2025 (247)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Yet Reviewed for halogen content                                                                                           |
| Solder Process Capability                     | Not reviewed for solder process capability                                                                                     |

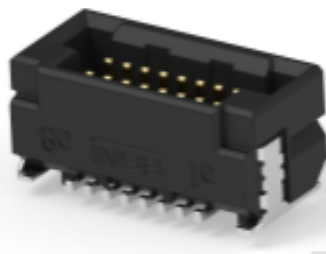
Product Compliance Disclaimer

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>

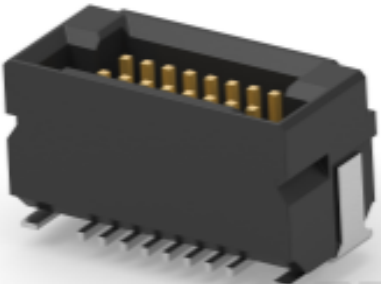
Compatible Parts







TE Part # 454927-E  
DRCQ 0,80 16 M 2 SMD M1 137 E009 176 GU-

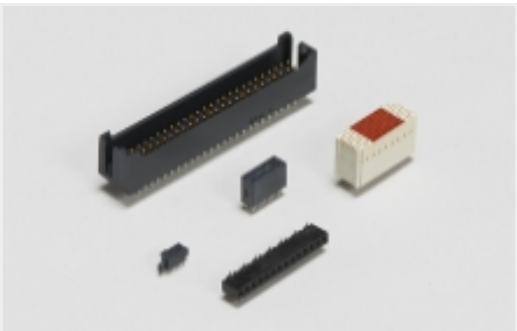


TE Part # 454928-E  
DRCQ 0,80 16 M 2 SMD M2 137 E009 176 GU-

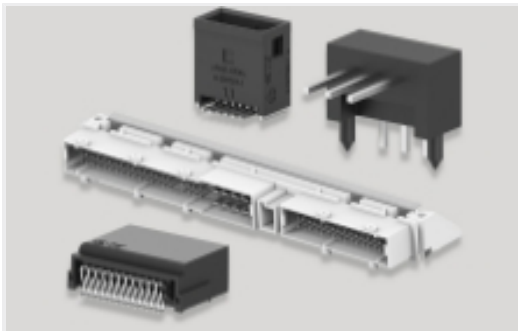


TE Part # 294283-E  
DRCB 0,80 16 M SMD \* 137 E009 196 GURT \*

Also in the Series | ERNI MicroCon



Board-to-Board Headers & Receptacles(44)

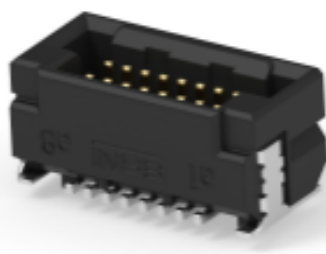


PCB Headers & Receptacles(44)



Rectangular Power Connectors(44)

Customers Also Bought



TE Part #454927-E  
DRCQ 0,80 16 M 2 SMD M1 137 E009 176 GU-



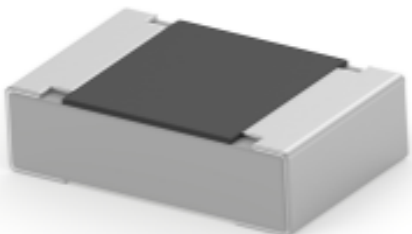
TE Part #CONMHF1-SMD-G-T  
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



TE Part #CONBNC004  
BNC Jack 50 Ohm Panel Mount



TE Part #ANT-868-NUB-SMA  
Antenna Compact Mini 868MHz SMA



TE Part #3-2176342-3  
CRGCQ 0805 220K 5%

Documents

Product Drawings

DRCQ 0,80 16 F \* SMD \* 137 E009 094 GURT

German

CAD Files

3D PDF

3D



Customer View Model

[ENG\\_CVM\\_CVM\\_294252-E\\_D.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_294252-E\\_D.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_294252-E\\_D.3d\\_igs.zip](#)

English

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Datasheets & Catalog Pages

[ERNI MicroCon Connector](#)

English

[ERNI MicroCon 0.8 mm Connectors](#)

German

[ERNI MicroCon 0.8 mm Connectors](#)

English