



TE Internal #: 5-2172078-2  
Standard Circular Connectors, Wire-to-Board, 8 Position, Sealable,  
2A Contact Current Rating (Max), Signal, Panel Mount, Reverse  
Gender, Nickel, Brass  
[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Wire-to-Board**  
Number of Positions: **8**  
Sealable: **Yes**  
Contact Current Rating (Max): **2 A**  
Circuit Application: **Signal**

Features

Product Type Features

|                         |               |
|-------------------------|---------------|
| Product Type            | Connector     |
| Connector System        | Wire-to-Board |
| Sealable                | Yes           |
| Circular Connector Type | Receptacle    |
| Shell Type              | Metal         |

Configuration Features

|                            |     |
|----------------------------|-----|
| Number of Positions        | 8   |
| Number of Power Positions  | 0   |
| Number of Signal Positions | 8   |
| Contacts Preloaded         | Yes |

Body Features

|                                             |           |
|---------------------------------------------|-----------|
| Shell Plating Material                      | Nickel    |
| Shell Base Material                         | Brass     |
| Circular Connector Insulation Material Type | Polyamide |



Contact Features

|                                 |          |
|---------------------------------|----------|
| Contact Current Rating (Max)    | 2 A      |
| Reverse Gender                  | Yes      |
| Contact Layout Arrangement      | Circular |
| Circular Connector Contact Type | Socket   |

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Panel Mount |
| Polarization Code       | A           |
| Mating Alignment Type   | Keyed       |
| Mating Retention        | With        |

Housing Features

|                               |    |
|-------------------------------|----|
| Circular Connector Shell Size | 12 |
|-------------------------------|----|

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| IP Water Sealing Level      | 8                         |
| IP Dust Sealing Level       | 6                         |
| Operating Temperature Range | -40 – 80 °C[-40 – 176 °F] |

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
| Shielded            | Yes    |

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                                                                                                                                                                                                                                                                                                                                                                                                                  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                                                                                                                                                                                                                                                                                                                       |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<br>SVHC > Threshold:<br>Pb (3% in Component Part)<br><b>Article Safe Usage Statements:</b><br>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                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                                                                                                                                                                                                                                                                                                        |



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 # T4111012081-000  
M12 M, 8P GOLD A\_CODE S  
SHIELDED PG9

Customers Also Bought



TE Part #2-2176057-7  
Thick Film Resistor: Current Sense



TE Part #2273048-4  
M12 A-CODE MALE STRAIGHT  
PIGTAIL



TE Part #1437504-4  
8060-1G11=GOLD TRANSISTOR  
SOCK



TE Part #1622952-1  
CRG0603 1% 47K



TE Part #1-2176244-8  
CRGS0805 5% 27R



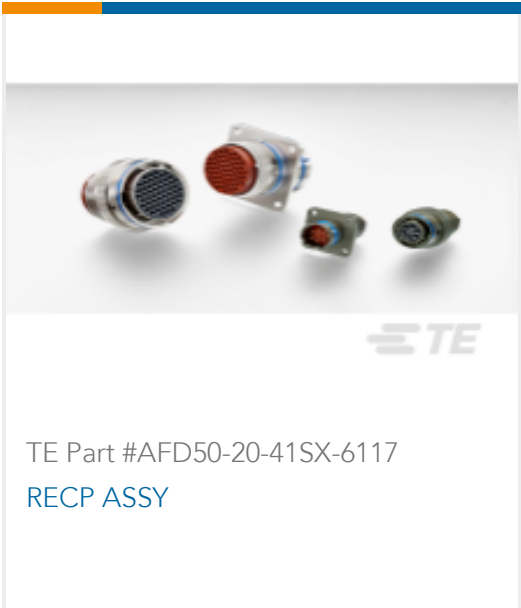
TE Part #1623934-8  
ZEROHM 0207 STEEL



TE Part #2-1879216-0  
CPF 0402 80K6 0.1% 25PPM 1K RL



TE Part #1-928344-2  
STD-TIMER GEH 2P



Documents

Product Drawings

M12.FMLE.PNLREAR.ACODE.8P.PCBSTD.SRT.SHL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-2172078-2\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-2172078-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-2172078-2\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages

M8 / M12 Connector System Catalog

English

Product Specifications

Application Specification

English