



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Board-to-Board Configuration	Orthogonal, Parallel
PCB Mount Orientation	Vertical
Number of Positions	20
Number of Rows	2

Electrical Characteristics

Operating Voltage	30 VAC
Insulation Resistance	5000 MΩ

Body Features

Primary Product Color	Black
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Contact Features

Contact Mating Area Plating Material Thickness	.03 μm[1.18 μin]
Mating Square Post Dimension	.38 mm[.015 in]



PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 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)	3.6 A

Termination Features

Rectangular Termination Post & Tail Width	.2 mm[.008 in]
Rectangular Termination Post & Tail Thickness	.4 mm[.016 in]
Termination Post & Tail Length	2.54 mm[.1 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarization
PCB Mount Retention Type	Hold-Down Post
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Housing Material	LCP
Centerline (Pitch)	1.27 mm[.05 in]

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
Stack Height	11.43 mm[.45 in]
Connector Width	5.03 mm[.198 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Connector Height	8.89 mm[.35 in]
Connector Length	13.82 mm[.54 in]

Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

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Solder Process Feature	Board Standoff
Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	38
Packaging Method	Tube

Product Compliance

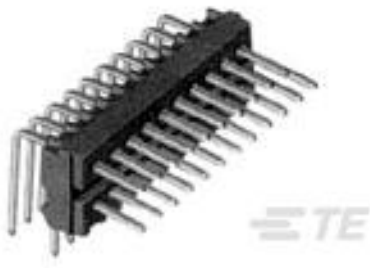
For compliance documentation, visit the product page on TE.com>

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 260°C

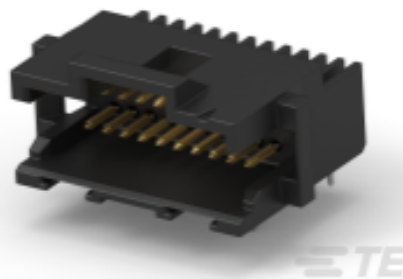
Product Compliance Disclaimer

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>

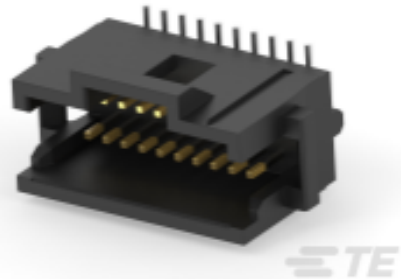
Compatible Parts



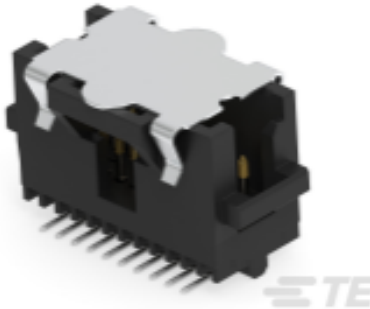
TE Part # 5-104118-7
20 SYS 50 HDR DRRA UNSHRD SN



TE Part # 5-104069-1
20 sys 50 hdr drra shrd sn



TE Part # 2-1825601-0
20 SYS50 SMT HDR DR SHD W/O CAP



TE Part # 5-147377-2
20 SYS50 SMT HDR DR SHD SN



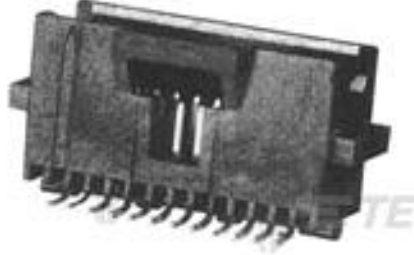
TE Part # 5-104666-1
20 SYSTEM 50 HDR DRST SHRD SN



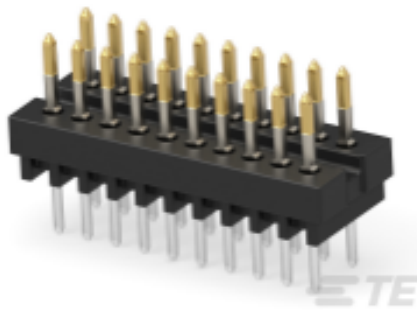
TE Part # 5-104068-1
20 SYSTEM 50 HDR DRST SHRD



TE Part # 5-104477-2
20 SYSTEM 50 HDR DRRA SHRD SN

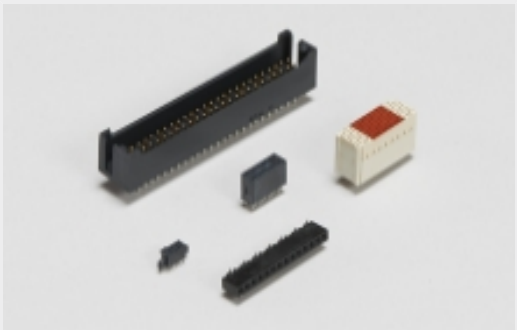


TE Part # 5-104549-2
20 SYS50 S/M HDR DRST SHRDSN

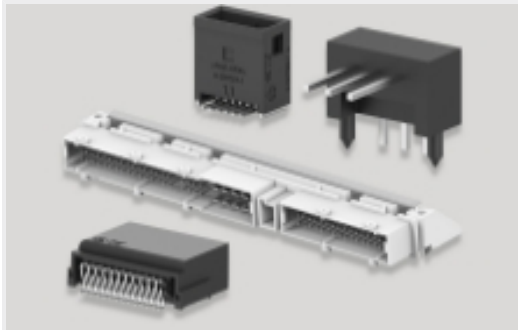


TE Part # 5-103916-2
20 SYS 50 HDR DRST UNSHRD SN

Also in the Series | AMPMODU System 50



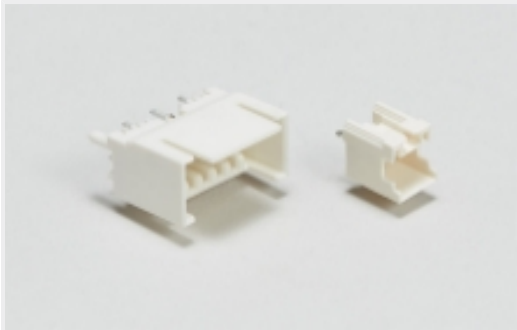
Board-to-Board Headers & Receptacles(685)



PCB Headers & Receptacles(685)



Rectangular Power Connectors(47)



Wire-to-Board Headers & Receptacles (47)

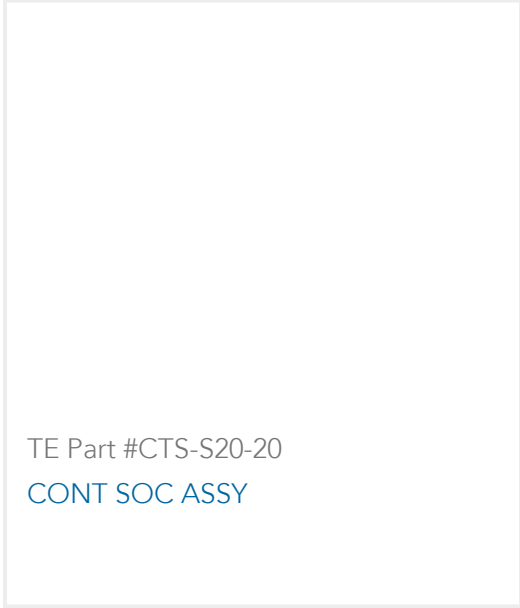
Customers Also Bought



TE Part #54775-1
TERMINAL,PG R 16-14 6-8-10



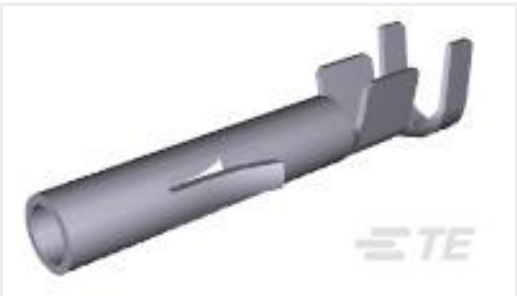
TE Part #350735-1
12P UMNL PLUG HSG



TE Part #CTS-S20-20
CONT SOC ASSY



TE Part #1776293-8
TSB23008DS=EUROPA TERM BLK, 8MM



TE Part #350536-1
UMNL SOK 20-14 .0126 PTPBR



TE Part #350547-1
UMNL PIN 20-14 PTPBR L/P



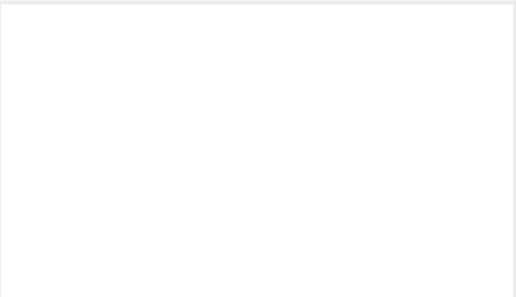
TE Part #350783-1
12P UMNL CAP HSG



TE Part #54774-2
PG R 22-16COM 22-18MIL 6-8-10



TE Part #DT04-4P
REC, 4P, GRY, N



TE Part #81542-20
CONT SOC ASSY

Documents

Product Drawings

20 SYSTEM 50 RCPT ASSY DRST SN

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5-104078-1_AA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5-104078-1_AA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-104078-1_AA.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_SECTION3AND4

English

Product Specifications

Application Specification

English