104652-2 DO NOT USE FOR NEW DESIGN

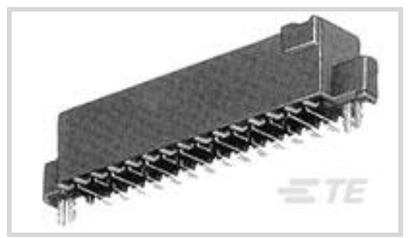
AMPMODU | AMPMODU 50/50 Grid

TE Internal #: 104652-2

PCB Mount Receptacle, Vertical, Board-to-Board, 20 Position, 1.27 mm [.05 in] Centerline, Gold (Au), Surface Mount, Signal, Black, AMPMODU 50/50 Grid

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **20**

Number of Rows: **2**

Centerline (Pitch): **1.27 mm [.05 in]**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Operating Voltage	30 VAC
Insulation Resistance	5000 MΩ

Body Features

PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin-Lead over Nickel
Primary Product Color	Black

Contact Features

	150 µin

Mating Pin Diameter	.46 mm[.018 in]
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	.762 µm[30 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.36 mm[.014 in]
Rectangular Termination Post & Tail Thickness	.08 mm[.003 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Height	4.75 mm[.187 in]
Row-to-Row Spacing	1.27 mm[.05 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

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

Operation/Application

Solder Process Feature	Board Standoff
Circuit Application	Signal

Industry Standards

Compatible With Approved Standards Products	CSA LR7189, UL E28476

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	31
Packaging Method	Box, Tube

Product Compliance

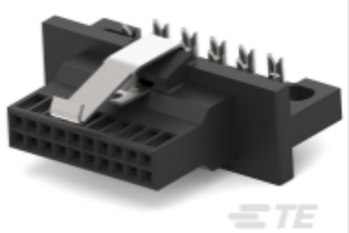
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (13% in 4690971273) **Article Safe Usage Statements:** 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 < 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 # 104892-2
20 50/50 GRID CBLE RCPT W/LTCH



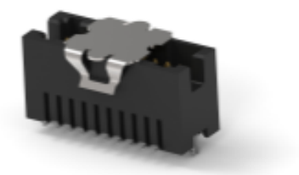
TE Part # 104891-2
20 50/50 GRID CABLE RCPT COVER



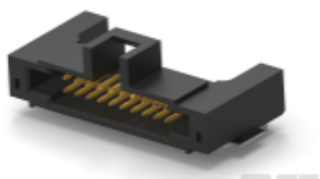
TE Part # 104693-2
20 50/50 HDR DRST SFMNT .390



TE Part # 147381-2
20 50/50 HDR SMT.250 W/HD VC



TE Part # 147382-2
20 50/50 HDR SMT.320 W/HD VC



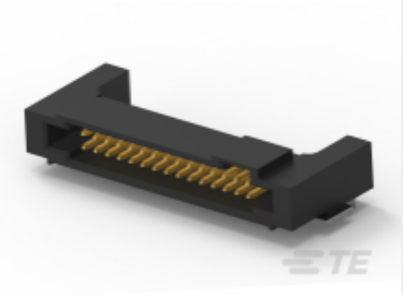
TE Part # 104895-2
20 50/50 GRID RA HDR W/LTCH



TE Part # 104656-2
20 50/50 HDR DRST SFMNT .320

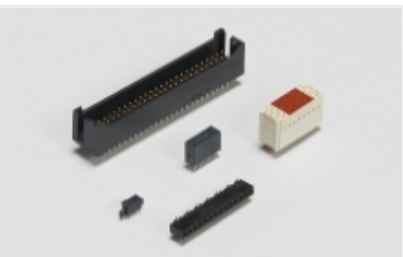


TE Part # 104655-3
20 50/50 HDR DRST SFMNT .250



TE Part # 104894-2
20 50/50 GRID RA HDR

Also in the Series | AMPMODU 50/50 Grid



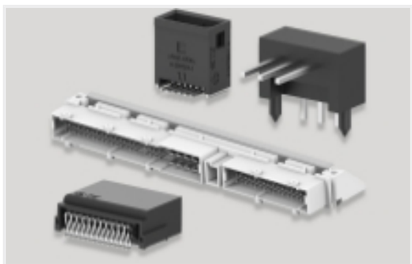
Board-to-Board Headers & Receptacles(87)



Connector Caps & Covers(7)



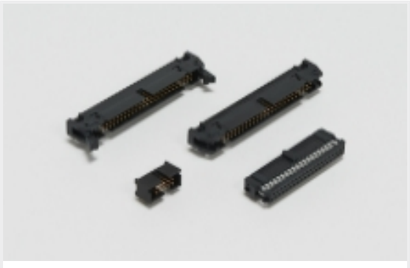
Insertion & Extraction Tools(1)



PCB Headers & Receptacles(87)



Rectangular Power Connectors(4)

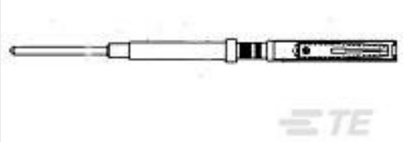


Ribbon Cable Connectors(14)

Customers Also Bought



TE Part #204520-2
RECEPT ASSY,78 POSN,AMPLIMITE



TE Part #211431-6
SKT CONTACT ASSY, SZ 22



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



TE Part #6-2176455-5
CPF 0402 511K 0.1% 25ppm 1K RL

TE Part #Y66572FG35PA1KJGV3
RECEP ASSY

TE Part #ZPF000000000207535
732-8254-22 T

TE Part #1617040-2
HTS1103S01 = HTS 1/2 SIZE 200C

Documents

Product Drawings

20 50/50 GRID DRST SFMNT RCPT

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_104652-2_L.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_104652-2_L.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_104652-2_L.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 Report

English