1-103916-6 DO NOT USE FOR NEW DESIGN

AMPMODU | AMPMODU System 50

TE Internal #: 1-103916-6

PCB Mount Header, Vertical, Board-to-Board, 80 Position, 1.27 mm [.05 in] Centerline, Unshrouded, Gold (Au), Through Hole - Solder, AMPMODU System 50

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles





PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **80**

Number of Rows: **2**

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

Features

Product Type Features

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

Configuration Features

Connector Contact Load Condition	Fully Loaded
Number of Positions	80
Number of Rows	2
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

Electrical Characteristics

Operating Voltage	30 VAC

Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	500 VAC

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material Finish	Matte
Mating Square Post Dimension	.38 mm[.015 in]
PCB Contact Termination Area Plating Material Thickness	3.81 – 6.35 µm[150 – 250 µin]
Contact Shape & Form	Rectangular
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
Contact Current Rating (Max)	3.6 A

Termination Features

Termination Post & Tail Diameter	.38 mm[.015 in]
Termination Post & Tail Length	2.54 mm[.1 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Connector Mounting Type	Board Mount
Mating Alignment	Without
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

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

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

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

Operation/Application

Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	10
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	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



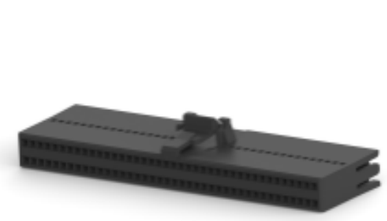
TE Part # 103911-6
80 SYSTEM 50 RCPT ASSY DRRA



TE Part # 104078-7
80 SYSTEM 50 RCPT ASSY DRST



TE Part # 104550-8
80 SYS50 SURFMNT DRST RCPT

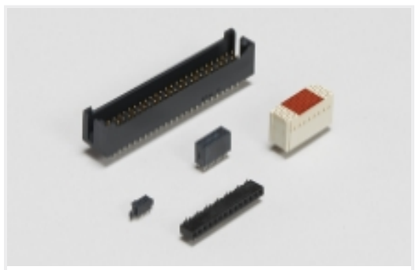


TE Part # 8-487937-0
080 HOUSING FFC 50CL DR LATCH

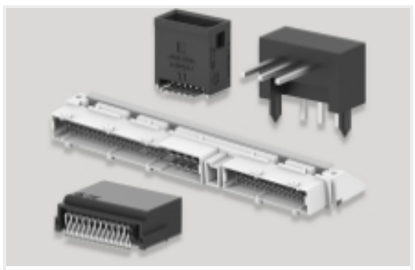


TE Part # 104744-4
80 SYSTEM 50 RCPT ASSY DRST

Also in the Series | AMPMODU System 50



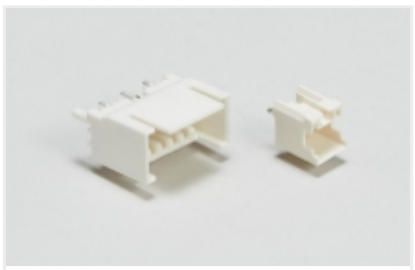
Board-to-Board Headers & Receptacles(218)



PCB Headers & Receptacles(218)



Rectangular Power Connectors(31)



Wire-to-Board Headers & Receptacles (31)

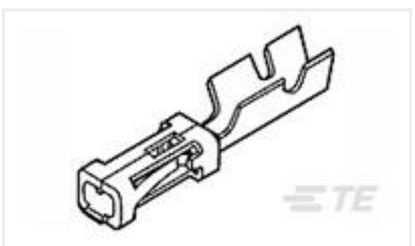
Customers Also Bought



TE Part #121397P024
ES2000-NO.3-B8-0-STK



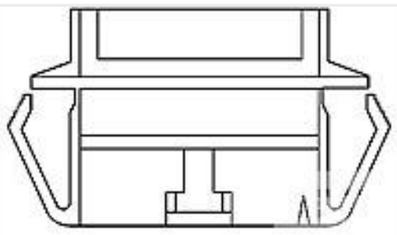
TE Part #66399-4
III+ SKT,24-20,30AU/FL,LP



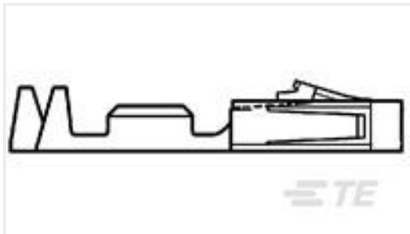
TE Part #87666-2
MOD IV RECP PLTD 30 SEL



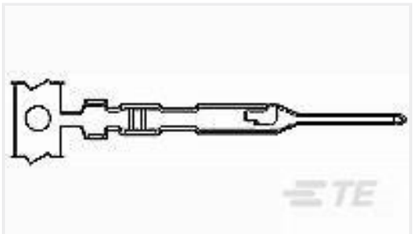
TE Part #103653-1
02 MTE SHRD PIN HSG SR LATCH



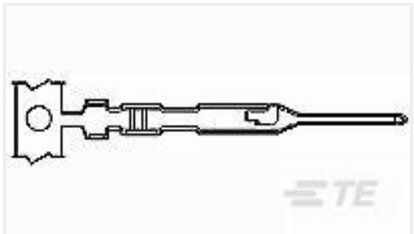
TE Part #103682-2
03 MTE PANEL MOUNT SR



TE Part #1-104480-2
SHORT POINT CONT 15 DPLX STMPD LF



TE Part #5-104505-3
MTE PIN LP



TE Part #5-104505-4
MTE PIN 22-26 AWG PLTD



TE Part #487526-2
003 HOUSING FFC RCPT 100CL SR



TE Part #770673-1
UMNL SOK 30-26 PTPBR L/P

Documents

Product Drawings

80 SYSTEM 50 HDR DRST UNSHRD

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-103916-6_Z.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-103916-6_Z.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-103916-6_Z.3d_stp.zip

English

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Product Specifications

Application Specification

English