5-103169-3 ✔ ACTIVE

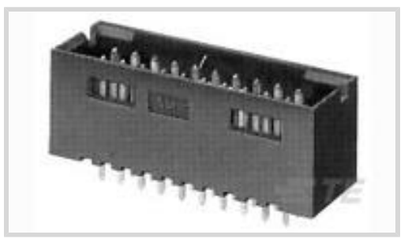
AMPMODU | AMPMODU Headers

TE Internal #: 5-103169-3

PCB Mount Header, Vertical, Board-to-Board, 10 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, AMPMODU Headers

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **10**

Number of Rows: **2**

Features

Product Type Features

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

Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	10
Number of Rows	2
Board-to-Board Configuration	Parallel

Electrical Characteristics

Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	750 Vrms

Body Features

Connector Profile	Standard
Primary Product Color	Black

Contact Features

Mating Square Post Dimension	.64 mm[.025 in]

PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.762 µm[30 µin]
Contact Type	Pin
Contact Current Rating (Max)	3 A

Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	3.18 mm[.125 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Retention	With
Mating Retention Type	Detent Window
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Material	Thermoplastic

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.4 mm[.055 in]

Usage Conditions

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

Operation/Application

Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	240
Packaging Method	Tray

Product Compliance

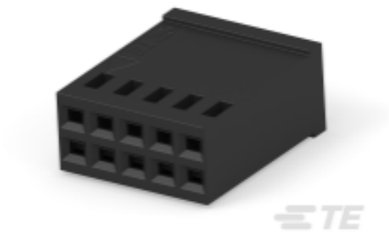
For compliance documentation, visit the product page on TE.com>

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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 240°C

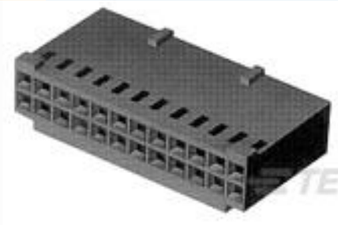
Product Compliance Disclaimer

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

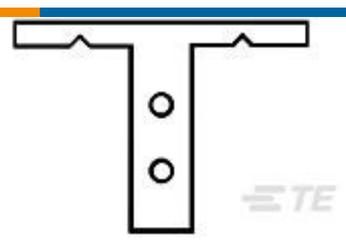
Compatible Parts



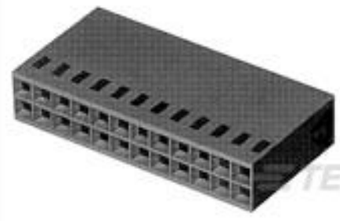
TE Part # 87456-5
10 MODIV HSG COMP DR .100CL



TE Part # 87977-3
10 MODIV HSG DR MRKD .100 POL



TE Part # 87743-1
MODII KEYED BARRIER INSERT



TE Part # 1-86177-2
10 MODIV HSG COMP DR .100CL

Also in the Series | AMPMODU Headers



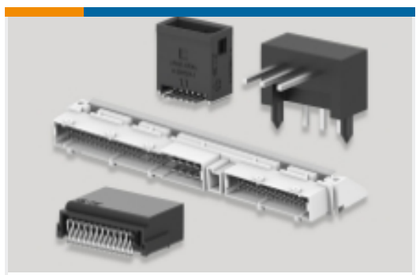
Connector Caps & Covers(1)



Connector Contacts(64)



Connector Hardware(2)



PCB Headers & Receptacles(3197)

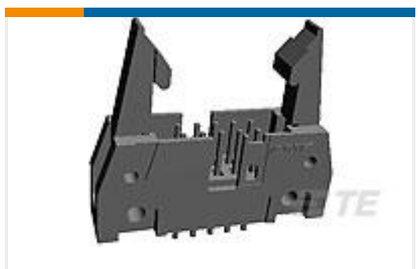


Wire-to-Board Connector Assemblies & Housings(5)

Customers Also Bought



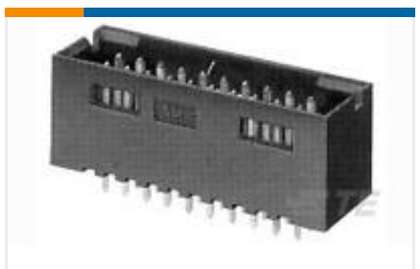
TE Part #5745352-4
15 PLUG RA/MS STD



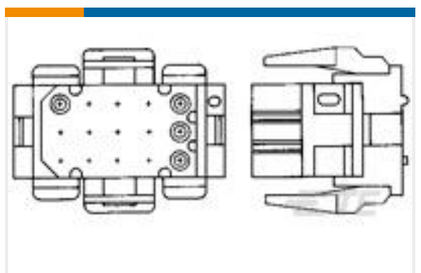
TE Part #5499374-6
A/L UNIV HDR 26P VERT SHT LAT



TE Part #2-745495-0
25 HDE MS RCPT,22-26,LEAD FREE



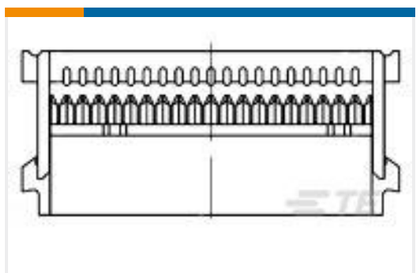
TE Part #5-103169-1
06 MODII HDR DRST SHRD .100CL



TE Part #1-640519-0
04P MR II PLUG HSG



TE Part #87977-1
06 MODIV HSG DR MRKD .100 POL



TE Part #2-1658526-1
609-4041LF FEM SOCKT,LEAD FREE



TE Part #87977-3
10 MODIV HSG DR MRKD .100 POL



TE Part #ANT-5GWWS1-SMA
Antenna Dipole Blade 5G/LTE Swivel SMA

Documents

Product Drawings

10 MODII HDR DRST SHRD .100CL

English

CAD Files

Customer View Model

ENG_CVM_CVM_5-103169-3_N.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5-103169-3_N.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-103169-3_N.3d_stp.zip

English

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Datasheets & Catalog Pages

AMPMODU_INTERCONNECTION_SYSTEM_SECTION5

English

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Global Electronic Components Distributor

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TE Connectivity:

ROX05SJ18R CRGCQ2010J3K3 SBCHE64R7K 2310537-1 1-962915-1 141991-2 1743455-2 1969656-1 2-292161-3 1-794222-0 2380312-2 1903112-2 3-1393225-0 3631B101LL 936348-1 RH73H2A40MKTN 650075-000 MPT100C18RF TE50BR39J 2005330-1 CPF0402B37K4E1 2834055-1 175977-2 2377783-2 917696-1 SBCHE154R7K SMW73R0JT 3430B2F51RTDF U5254-000005-030PA 1393431-1