1-103168-0 ✔ ACTIVE

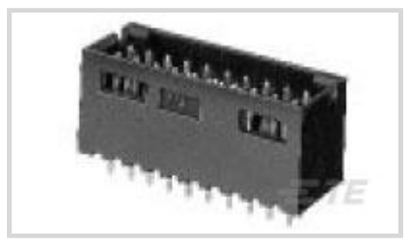
AMPMODU | AMPMODU Headers

TE Internal #: 1-103168-0

PCB Mount Header, Vertical, Board-to-Board, 24 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, AMPMODU Headers

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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: **24**

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	24
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-Lead
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	72
Packaging Method	Tray

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	Not 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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (40% in Component Part) **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	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



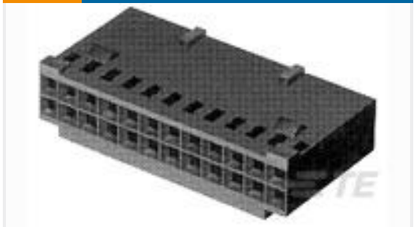
TE Part # 1-87977-0
24 MODIV HSG DR MRKD .100 POL



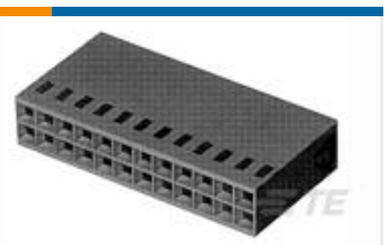
TE Part # 2-87456-0
24 MODIV HSG DR MRKD .100CL



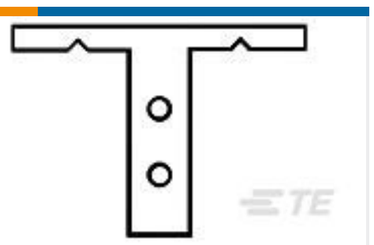
TE Part # 3-87977-7
24 MODIV HSG COMP DR .100 POL



TE Part # 87733-3
24 MODIV HSG W/STR RLF DR MRKD



TE Part # 1-87456-9
24 MODIV HSG COMP DR .100CL



TE Part # 87743-1
MODII KEYED BARRIER INSERT



TE Part # 86177-3
24 MODIV HSG COMP DR .100CL

Also in the Series | AMPMODU Headers



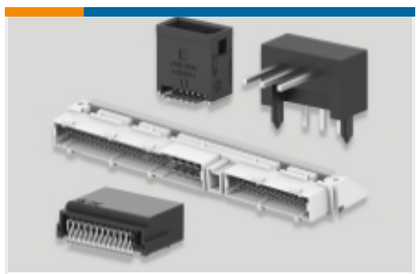
Connector Caps & Covers(1)



Connector Contacts(64)



Connector Hardware(2)



PCB Headers & Receptacles(3204)

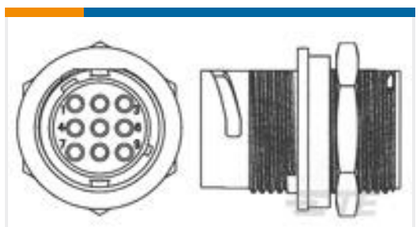


Wire-to-Board Connector Assemblies & Housings(5)

Customers Also Bought



TE Part #208489-1
CMC RECEPTACLE ASSY,SIZE 22



TE Part #1445823-3
REC,11-6,FLNG MT,LG INS,STD KE



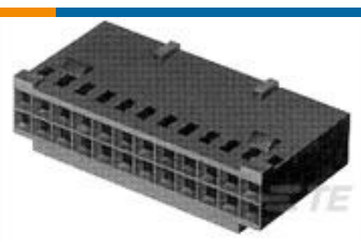
TE Part #208483-1
Circular Connector, CMC Series 3



TE Part #6609100-1
PE0SSS000=C1137



TE Part #1-770901-0
MINI UMNL PIN 26-22 AWG AU LF



TE Part #3-87631-5
40 MODIV HSG COMP DR .100 POL



TE Part #5406443-1
MJ ASSY,2P,8POS,R/A,PCB,CAT5



TE Part #1-1393118-9
KUP-14D15F-24=KU

Documents

Product Drawings

24 MODII HDR DRST SHRD .100CL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-103168-0_M.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-103168-0_M.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-103168-0_M.3d_stp.zip

English

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TE Connectivity:

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