2-103168-3 ✔ ACTIVE

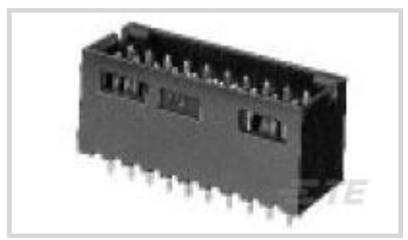
AMPMODU | AMPMODU Headers

TE Internal #: 2-103168-3

PCB Mount Header, Vertical, Board-to-Board, 50 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: **50**

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	50
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	32
Packaging Method	Tray

Product Compliance

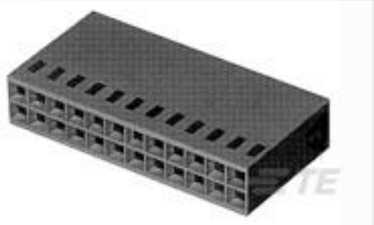
For compliance documentation, visit the product page on TE.com>

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

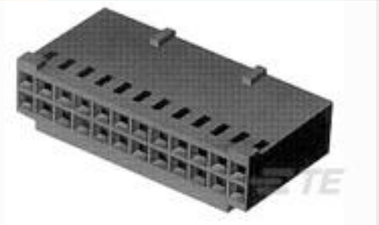
Product Compliance Disclaimer

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

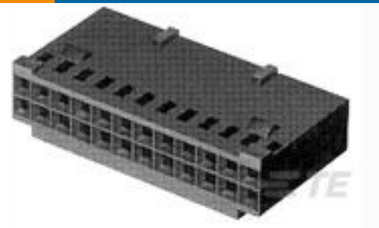
Compatible Parts



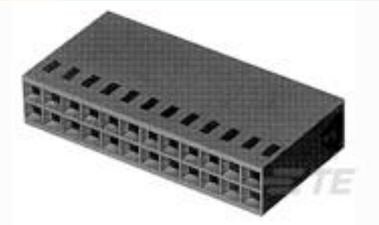
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50 MODIV HSG DR MRKD .100CL



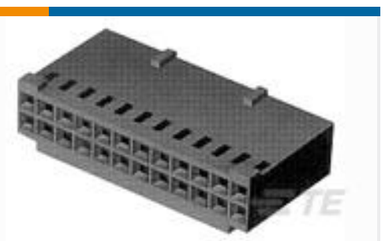
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50 MODIV HSG COMP DR .100 POL



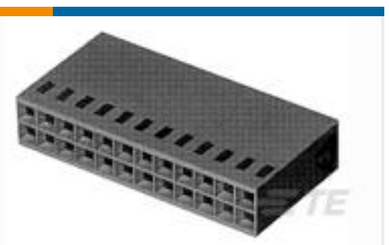
TE Part # 1-87733-4
50 MODIV HSG W/STR RLF DR MRKD



TE Part # 3-87456-9
50 MODIV HSG COMP DR .100CL



TE Part # 2-87977-1
50 MODIV HSG DR MRKD .100 POL



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

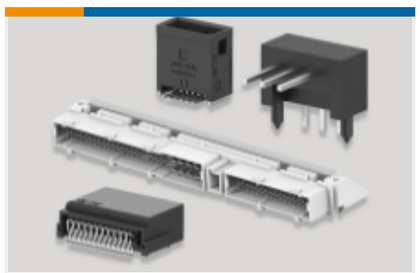
Also in the Series | AMPMODU Headers



Connector Contacts(60)



Connector Hardware(1)



PCB Headers & Receptacles(1624)



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

Customers Also Bought



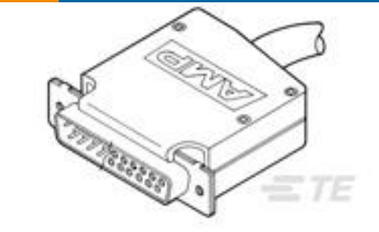
TE Part #160298
PIDG Ring Tongue Terminals



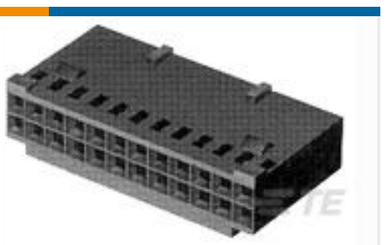
TE Part #5207719-1
KIT SCREWLOCK FEMALE



TE Part #1-87175-4
06 LOCKING CLIP HSG SR .100CL



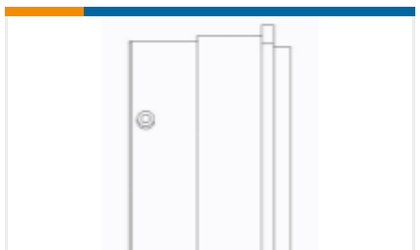
TE Part #207476-1
CABLE CLAMP KIT,SZ 5



TE Part #4-87631-1
50 MODIV HSG COMP DR .100 POL



TE Part #1218440-4
AMPLIMITE,ASY,PLUG,RT ANG,109,4



TE Part #YDL60H-22-55PNV001
HERM RECP



TE Part #9-1393792-9
V23105A5305A201



TE Part #2-1393254-6
W91-X112-25=M6/M7/M9/W6/W7

Documents

Product Drawings

50 MODII HDR DRST SHRD .100CL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-103168-3_M.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-103168-3_M.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-103168-3_M.3d_stp.zip

English

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Product Specifications

Product Specification

English

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Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

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