

7-87589-1

✓ ACTIVE

AMPMODU | AMPMODU Headers

TE Internal #: 7-87589-1

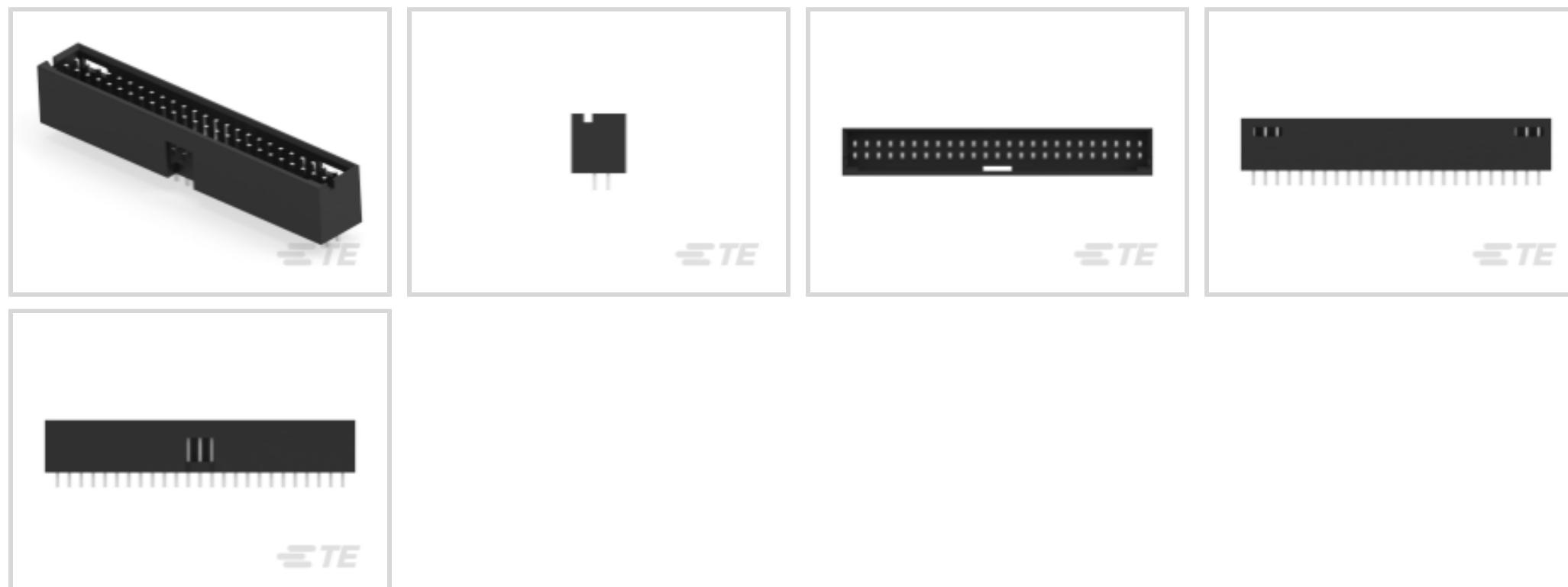
PCB Mount Header, Vertical, Board-to-Board, 50 Position, 2.54 mm

[.1 in] Centerline, Fully Shrouded, Tin, 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 Mating Area Plating Material Finish

Matte

Contact Underplating Material

Nickel

PCB Contact Termination Area Plating Material

Tin

Contact Base Material

Phosphor Bronze

Contact Mating Area Plating Material

Tin

Contact Mating Area Plating Material Thickness

2.54 – 5.08 μm [100 – 200 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 Printed Circuit Board

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

Nylon-GF

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
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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	64
Packaging Type	Tray

Product Compliance

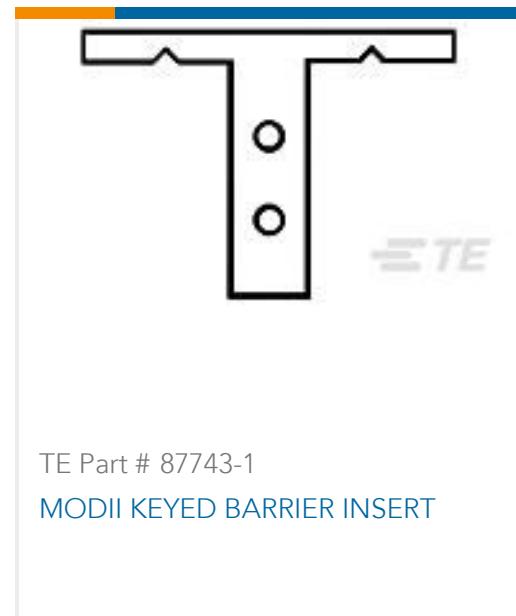
For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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

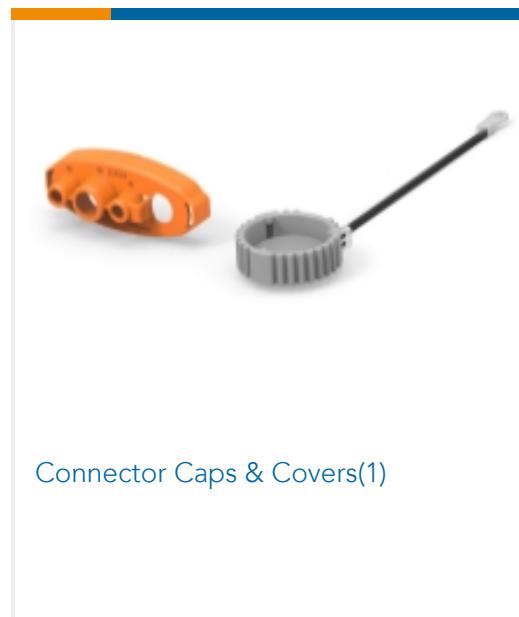
Product Compliance Disclaimer

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>

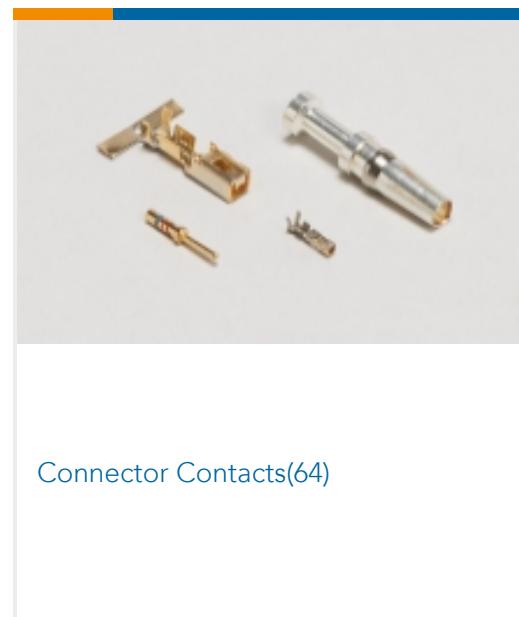
Compatible Parts

TE Part # 4-87977-8
50 MODIV HSG COMP DR .100 POLTE Part # 3-87456-9
50 MODIV HSG COMP DR .100CLTE Part # 87743-1
MODII KEYED BARRIER INSERTTE Part # 2-86177-1
50 MODIV HSG COMP DR .100CL

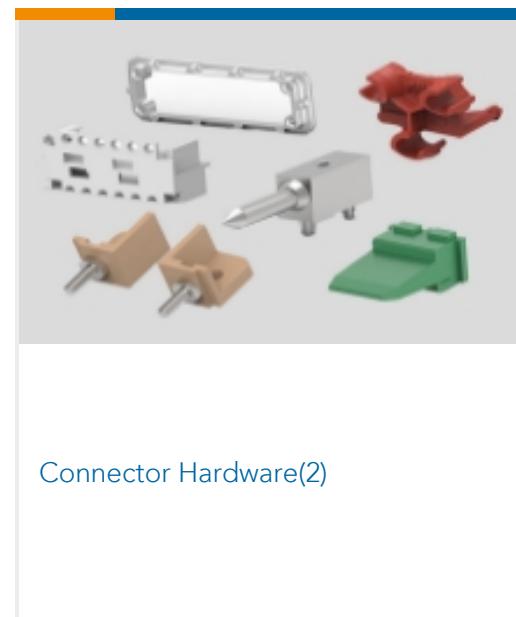
Also in the Series | AMPMODU Headers



Connector Caps & Covers(1)



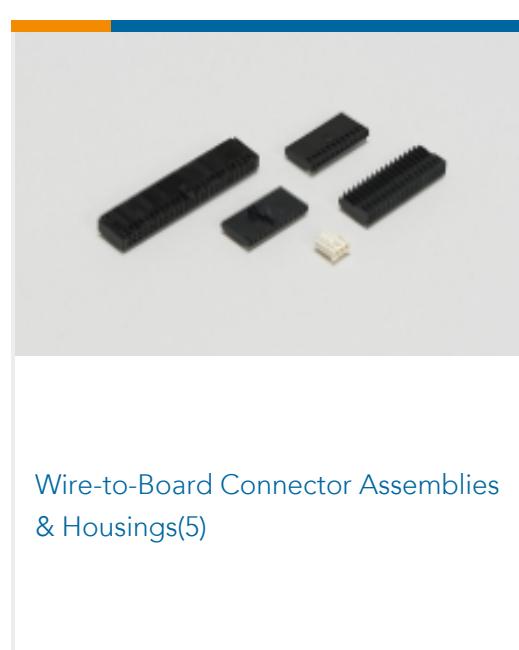
Connector Contacts(64)



Connector Hardware(2)



PCB Headers & Receptacles(4379)

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

Customers Also Bought

TE Part #171826-4
POST HEADER ASSY HORIZONTAL EITE Part #2-1393118-7
KUP-14D35-24=KUTE Part #6-87589-1
30 MODII HDR DRST SHRD .100CL

Documents

Product Drawings

50 MODII HDR DRST SHRD .100CL

English

CAD Files

Customer View Model[ENG_CVM_7-87589-1_R.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_7-87589-1_R.3d_stp.zip](#)

English

Customer View Model[ENG_CVM_7-87589-1_R.2d_dxf.zip](#)

English

3D PDF

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.**Datasheets & Catalog Pages**[AMPMODU_INTERCONNECTION_SYSTEM_SECTION5](#)

English