

Power Double Lock

TE Internal #: 179841-1

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 3.96 mm [.156 in] Centerline, Fully Shrouded, Tin (Sn), Power Double Lock

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

Number of Rows: **2**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	3
Number of Loaded Positions	6
Number of Power Positions	6
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	6



Number of Rows	2
----------------	---

Electrical Characteristics

Operating Voltage	50 VAC
-------------------	--------

Body Features

Primary Product Color	Natural
-----------------------	---------

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.8 – 1.8 µm[31.49 – 70.86 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Size	1.5mm
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Mating Tab Width	1.5 mm[.06 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Shape & Form	Rectangular
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Mating Tab Thickness	.5 mm[.02 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Tab
Contact Current Rating (Max)	8 A

Termination Features

Rectangular Termination Post & Tail Width	1.1 mm[.043 in]
Rectangular Termination Post & Tail Thickness	.5 mm[.02 in]
Termination Post & Tail Length	3.8 mm[.15 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Latch
Mating Retention	With
Mating Alignment Type	Polarization



PCB Mount Retention Type	Kinked
PCB Mount Alignment Type	Boss
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	Nylon 6/6 GF
Centerline (Pitch)	3.96 mm[.156 in]

Dimensions

Row-to-Row Spacing	4.6 mm[.181 in]
Connector Width	14.8 mm[.582 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	14.6 mm[.575 in]
Connector Length	13 mm[.512 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power
---------------------	-------

Industry Standards

Compatible With Agency/Standards Products	CSA, UL, VDE
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	272
Packaging Method	Box

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°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 # 177901-1
POWER DBL LOCK PLUG HSG 6P

TE Part # 179839-9
AMP POWER D/LOCK T/HDR ASSY 3P

Also in the Series | Power Double Lock

Connector Contacts(24)

Connector Hardware(14)

PCB Headers & Receptacles(43)

Power Contacts(24)



[Rectangular Connector Housings\(240\)](#)



[Rectangular Power Connectors\(283\)](#)



[Standard Rectangular Connectors\(240\)](#)

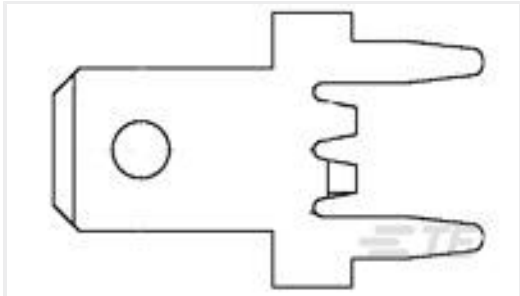
Customers Also Bought



TE Part #1-1123824-1
[EP 1P HDR NATURAL](#)



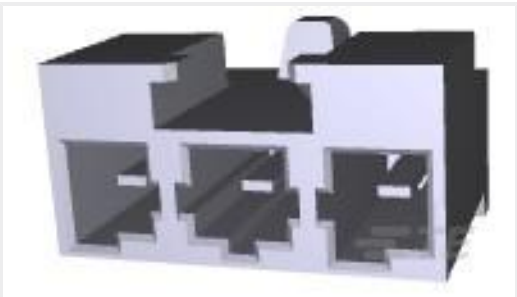
TE Part #CAT-SU763-H342
[SUPERSEAL Connector Headers: 1.0 mm](#)



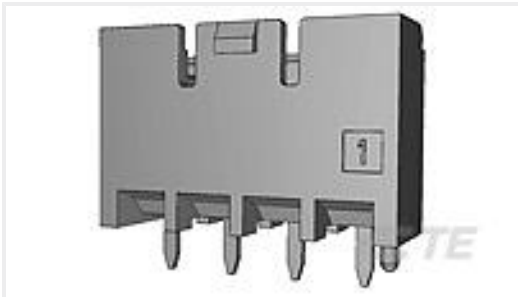
TE Part #63823-1
[187 FASTON TAB TPBR](#)



TE Part #5499786-2
[A/L UNIV HDR 14P RA LAT](#)



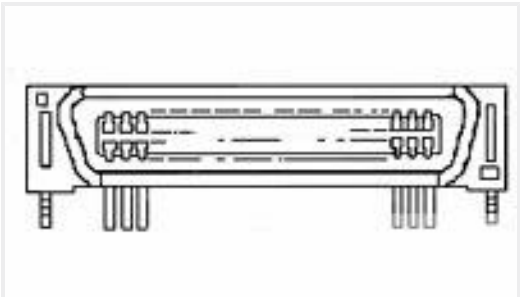
TE Part #179846-1
[AMP POWER D/LOCK T/HDR ASSY 3P](#)



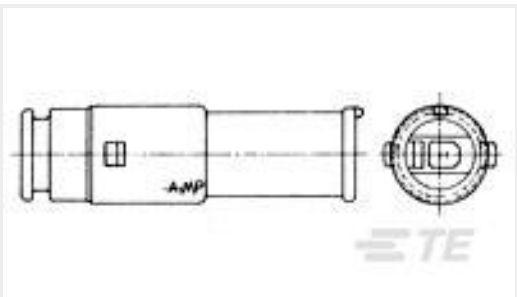
TE Part #2-1376383-3
[5MM B-T-W CONN. 3P HDR ASSEMBL](#)



TE Part #7-1623931-6
[CFR25 5% 820K](#)



TE Part #5176381-5
[PLUG ASS'Y\(H\) 120P 1.27FHBB](#)



TE Part #172205-2
[ECONOSEAL-J CONN CAP 4P BLACK](#)

Documents

Product Drawings

[AMP POWER D/LOCK T/HDR ASSY 6P](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_179841-1_E.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_179841-1_E.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_179841-1_E.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_179841-1_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_179841-1_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_179841-1_E.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

Product Specifications

[Engineering Report](#)

English

Instruction Sheets

[Instruction Sheet \(non U.S.\)](#)

English

[AMP POWER DOUBLELOCK CONNECTOR SERIES](#)

English

Agency Approvals

[CSA Certificate](#)

English