



AMP

TE Internal #: 640500-5
PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Power & Signal, Black

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
Connector System: **Wire-to-Board**
Number of Positions: **6**
Number of Rows: **3**
Centerline (Pitch): **4.2 mm [.165 in]**

Features

Product Type Features

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

Configuration Features

Number of Columns	2
Number of Loaded Positions	6
Number of Signal Positions	6
Number of Positions	6
Number of Rows	3
PCB Mount Orientation	Vertical

Electrical Characteristics



Operating Voltage	250 VAC
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Body Features

Primary Product Color	Black
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Contact Features

PCB Contact Termination Area Plating Material Thickness	3.81 µm[150 µin]
Contact Layout	Matrix
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	3.81 µm[150 µin]
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	6 A

Termination Features

Termination Post & Tail Length	4.57 mm[.18 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarization
Mating Retention	With
Mating Retention Type	Positive Lock
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

Housing Material	PA 66
Centerline (Pitch)	4.2 mm[.165 in]

Dimensions

Connector Length	15.75 mm[.62 in]
Connector Height	13.46 mm[.53 in]
Connector Width	11.56 mm[.455 in]



PCB Thickness (Recommended)	2.36 mm[.093 in]
Row-to-Row Spacing	4.19 mm[.165 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]

Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Features

Packaging Quantity	200
Packaging Method	Bag

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	Not Low Halogen - contains Br or Cl > 900 ppm.
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 # 1-640520-0
06P MR II PLUG HSG

Customers Also Bought

TE Part #2102060-1
Mezalok, Pin, 114 p, 50 Au, TL

TE Part #87224-6
06 MODII HDR SRST UNSHRD .100

TE Part #194002-1
PIN ASSY..070

TE Part #5-104068-1
20 SYSTEM 50 HDR DRST SHRD

TE Part #5055323-9
06 POWER TAP ASSY .125

TE Part #1-1614883-2
CPF0805 200K 0.1% 25PPM 1K RL

TE Part #87227-2
04 MODII HDR DRST UNSHRD .100

TE Part #2311768-1
AMPL REC, HD22, R/A, 26P, THREADED

TE Part #7-2176558-9
3430 B2 1% 1K6 100ppm 1k RL

TE Part #CW4573-000
R85049/85-10N02

Documents

Product Drawings



06P MR HDR ASSY V0

English

CAD Files

Customer View Model

ENG_CVM_640500-5_N.3d_igs.zip

English

Customer View Model

ENG_CVM_640500-5_N.3d_stp.zip

English

Customer View Model

ENG_CVM_640500-5_N.2d_dxf.zip

English

3D PDF

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_640500-5_W.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_640500-5_W.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_640500-5_W.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

AMP Miniature Rectangular (MR) Headers

English

English

Agency Approvals

UL

English