



AMP

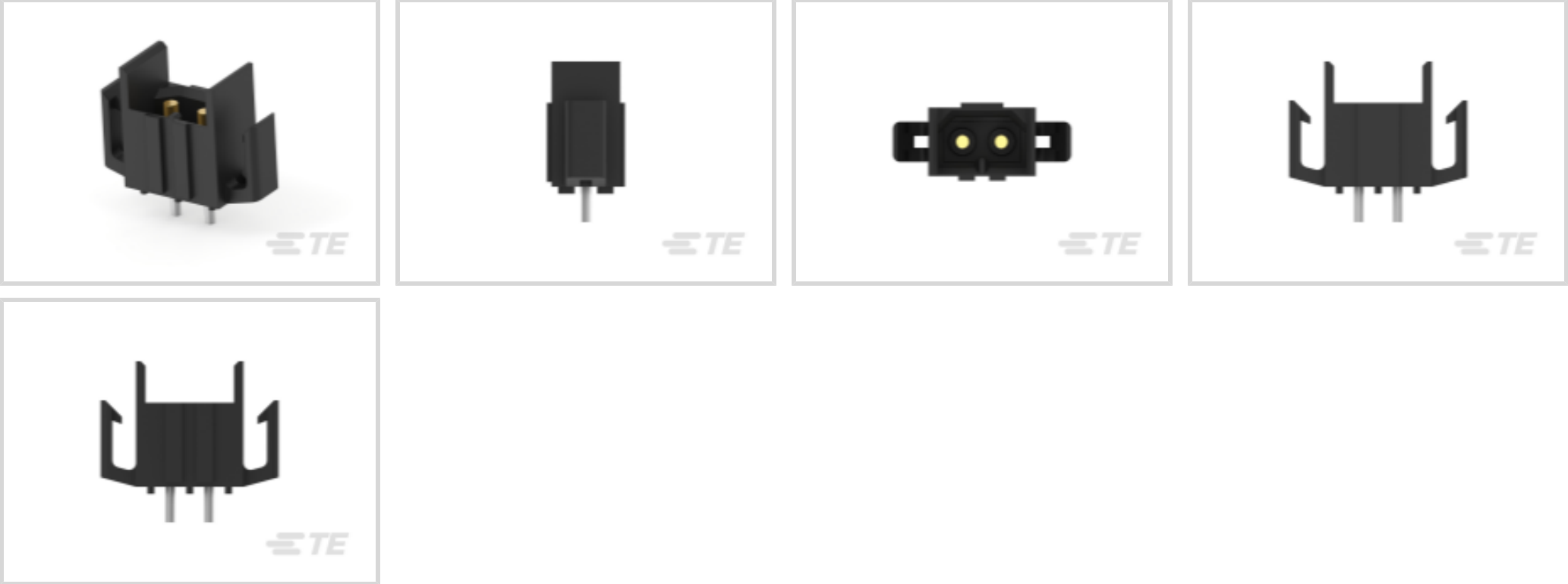
TE Internal #: 640497-2

Header, Receptacle, Wire-to-Board, 2 Position, 4.2 mm [.165 in]

Centerline, Printed Circuit Board, UL 94V-0, Rectangular Power Connectors

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **2**

Centerline (Pitch): **4.2 mm [ .165 in ]**

Features

Product Type Features

Header Type	Fully Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Columns	2
Number of Positions	2
PCB Mount Orientation	Vertical
Number of Power Positions	0
Number of Signal Positions	2
Number of Rows	1

Electrical Characteristics



Operating Voltage	250 VDC
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Contact Features

Contact Layout	Inline
Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	6 A
Contact Retention Within Housing	With
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]

Termination Features

Termination Post & Tail Length	3.56 mm[.14 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Height	13.46 mm[.29 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Product Width	19.94 mm[.455 in]
Product Length	11.56 mm[.785 in]
Wire Size	.12 – .8 mm²
Row-to-Row Spacing	4.19 mm[.165 in]

Usage Conditions

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Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

CSA Rating	LR 7189
UL Rating	Recognized
Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

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	Not lead free process capable

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 # 1-640517-0  
02P MR II PLUG HSG

### Customers Also Bought

TE Part #3-641215-3  
PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment

TE Part #4-2176070-4  
3521 620R 1% 2W

TE Part #207530-9  
SKT HDR ASSY,18P,MMATE LF

TE Part #535090-4  
096 EURO TYPE C RECEPT ST ASSY

TE Part #5-104074-5  
25 SYSTEM 50 HDR SRRA SHRD SN

TE Part #216049-000  
55A0111-18-2

TE Part #5956233001  
100G0111-0.60-9

TE Part #5-102619-8  
20 MODII HDR DRST SHRD .100CL

TE Part #234200-E  
SMCB 68 F AB VV 7-23 CL \* H007 137 E002

### Documents

- CAD Files
- Customer View Model
- ENG\_CVM\_640497-2\_P.3d\_igs.zip
- English
- Customer View Model
- ENG\_CVM\_640497-2\_P.3d\_stp.zip



English

Customer View Model

[ENG\\_CVM\\_640497-2\\_P.2d\\_dxf.zip](#)

English

[3D PDF](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_640497-2\\_Y.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_640497-2\\_Y.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_640497-2\\_Y.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