



AMP-HDI

TE Internal #: 532431-8  
PCB Mount Receptacle, Right Angle, Board-to-Board, 165 Position,  
2.54 mm [.1 in] Centerline, Gold, Through Hole - Solder, Signal,  
Black, Tube

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**  
PCB Mount Orientation: **Right Angle**  
Connector System: **Board-to-Board**  
Number of Positions: **165**  
Number of Rows: **3**

Features

Product Type Features

PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Stackable	No
PCB Mount Orientation	Right Angle
Number of Positions	165
Number of Rows	3

Electrical Characteristics

Insulation Resistance	3 MΩ
-----------------------	------

Body Features

Primary Product Color	Black
-----------------------	-------



Contact Features

Mating Square Post Dimension	.64 mm[.025 in]
Contact Layout	Matrix
Contact Shape & Form	Four Beam
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Type	Socket
Contact Current Rating (Max)	3 A

Termination Features

Rectangular Termination Post & Tail Thickness	.25 mm[.01 in]
Rectangular Termination Post & Tail Width	.58 mm[.023 in]
Termination Post & Tail Length	4.57 mm[.18 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment	Without
Mating Alignment Type	Keyed
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

Connector Height	9.14 mm[.36 in]
PCB Thickness (Recommended)	2.36 mm[.76 in]

Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-65 - 125 °C[-85 - 257 °F]

Operation/Application

Assembly Process Feature	None
--------------------------	------



Circuit Application	Signal
Industry Standards	
UL Flammability Rating	UL 94V-0

Packaging Features	
Packaging Quantity	3
Packaging Method	Tube

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	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JUL 2021 (219) SVHC > Threshold: Pb (.13%) <b>Article Safe Usage Statements:</b> 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	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 # 532433-8  
HDI PIN ASSY 3 ROW 165 POS

TE Part # 532446-5  
HDI PIN ASSY 2 ROW 60 POS

TE Part # 5532433-8  
ASSY,PIN,VERTICAL,HDI,LEAD-FRE

TE Part # 533061-8  
HDI PIN ASSY 3 ROW 165 POS

TE Part # 532447-8  
HDI PIN ASSY 3 ROW 165 POS

TE Part # 650841-1  
HDI PIN ASSY 3ROW 165/107 POS

Customers Also Bought

TE Part # 111355-8  
40 PDL BRD COVER

TE Part # 530341-3  
BOX RECPT KIT

TE Part # 530341-6  
BOX KIT

TE Part # 532430-3  
HDI PIN ASSY 2 ROW 40 POS

TE Part # 1617005-9  
B07D992BZ2-0050 = M5757/23-002

TE Part # 1617034-4  
HFW1501S09 = HFW 1/2 SIZE RELA

Documents

Product Drawings

HDI RECP ASSY 3 ROW 165 POS

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_532431-8\_U.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_532431-8\\_U.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_532431-8\\_U.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[1-1773957-5\\_AMP\\_HDI\\_BTBT\\_CONNECTORS\\_EN](#)

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

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

English

Agency Approvals

[Agency Approval Document](#)

English