1-5533268-2 - ACTIVE

#### AMP-HDI

TE Internal #: 1-5533268-2 PCB Mount Receptacle, Right Angle, Board-to-Board, 225 Position, . 1 in [2.54 mm] Centerline, Gold, Through Hole - Solder, Signal, Black

#### 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: 225

Number of Rows: 3

## Features

**E** 

#### 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	225			
Number of Rows	3			
Electrical Characteristics				
Insulation Resistance	3 MΩ			
Body Features				
Primary Product Color	Black			

PCB Mount Receptacle, Right Angle, Board-to-Board, 225 Position, .1 in [2.54 mm] Centerline, Gold, Through Hole - Solder, Signal, Black



#### **Contact Features**

Contact LayoutMatrixContact Maing Area Length6.98 mmPCB Contact Termination Area Plating Material Thickness2.54 – 5.08 µm/97.9999 – 199.9996 µm]Contact Shape & FormFour BeamPCB Contact Termination Area Plating MaterialGoldContact Base MaterialCopper AlloyContact Maing Area Plating Material Thickness7.6 µm/80 µm]Contact Maing Area Plating Material Thickness7.6 µm/80 µm]Contact Maing Area Plating Material Thickness7.6 µm/80 µm]Contact Corrent Rating (Max)3.AContact Corrent Rating (Max)3.AContact Corrent Rating (Max)3.GRectangular Termination Post & Tail Thickness25 mm/.01 in]Rectangular Termination Post & Tail Width.58 mm, 023 n]Termination Method to Printed Circuit BoardThrough Hole - SolderMethanical AttachmentScrew MountPCB Mount Alignment TypeScrew MountPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentScrew MountPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew Mount		
PCB Contact Termination Area Plating Material Thickness     2.54 5.08 µm[99.9998 199.9996 µn]       Contact Shape & Form     Four Beam       PCB Contact Termination Area Plating Material     Tin       Contact Sase Material     Gold       Contact Mating Area Plating Material     Gold       Contact Mating Area Plating Material     Gold       Contact Mating Area Plating Material Thickness     .76 µm[30 µm]       Contact Torm Rating (Max)     3 A       Termination Features     Stocket       Rectangular Termination Post & Tail Unidth     58 mm (023 in]       Termination Post & Tail Unidth     58 mm (023 in]       Termination Post & Tail Length     305 mm (121m]       Termination Post & Tail Unigth     Strew Mount       PCB Mount Alignment     Without       PCB Mount Alignment     Storm (11m]       Housing Teatures     Connector Mounting Type       Contact Mating Alignment     Without       PCB Mount Retention     Storm (11m]       Housing Material     Thermoplastic       Dimensions     2.36 mm(17d in]	Contact Layout	Matrix
Cortact Shape & FormFour BeamPCB Contact Termination Area Plating MaterialTinContact Base MaterialCopper AlleyContact Mating Area Plating MaterialGoldContact Mating Area Plating Material Thickness76 µn(30 µn)Contact Mating Area Plating Material Thickness76 µn(30 µn)Contact Current Rating (Max)3 ATermination Features25 mm(.01 in)Rectangular Termination Post & Tail Thickness25 mm(.023 in)Termination Post & Tail Thickness25 mm(.023 in)Rectangular Termination Post & Tail Width58 mm(.023 in)Termination Post & Tail Unigh3.05 mm(.12 in)Termination Post & Tail Width58 mm(.023 in)Termination Post & Tail Unigh3.05 mm(.12 in)Termination Post & Tail Width58 mm(.023 in)Termination Post & Tail Width58 mm(.023 in)Termination Post & Tail Unigh3.05 mm(.12 in)Termination Method to Printed Circuit BoardThrough Hole SolderMechanical AttachmentWithoutPCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount Alignment2.54 mm(.11 in)Housing MaterialThermoplasticDimensionsConnector HeightPCB Thousing Material18.39 mm(.723 in)PCB Thousing Material18.39 mm(.723 in)PCB Thickness (Recommended)2.36 mm(.76 in)Usage Conditions2.36 mm(.76 in)Housing Teneprison<	Contact Mating Area Length	6.98 mm
PCB Contact Termination Area Plating MaterialTinContact Base MaterialCopper AlleyContact Mating Area Plating MaterialGoldContact Mating Area Plating Material Thickness.76 µrt[30 µirt]Contact TypeSocketContact Current Rating (Max)3.ATermination Features	PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 μm[99.9998 – 199.9996 μin]
Contact Base MaterialCopper AlloyContact Mating Area Plating MaterialGoldContact Mating Area Plating Material Thickness.76 µm[30 µin]Contact TypeSocketContact Current Rating (Max)3 ATermination Features.25 mm[01 in]Rectangular Termination Post & Tail Width.58 mm[023 in]Termination Post & Tail Length305 mm[.12 in]Termination Post & Tail Length305 mm[.12 in]Termination Method to Printed Circuit BoardIhrough Hole - SolderMechanical AttachmentWithoutPCB Mount Alignment TypeScrew MountPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentDecempointPCB Mount RetentionWithoutPCB Mount Ing TypeBoard MountPCB Mount MaterialIhermoplasticPCB Mount AlignmentWithoutPCB Mount Ing TypeScrew MountPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentDecempointPCB Mount Alignment2.54 mm[.1 in]Housing MaterialThermoplasticDimensions	Contact Shape & Form	Four Beam
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         .25 mm(.01 in)           Rectangular Termination Post & Tail Thickness         .25 mm(.02 in)           Termination Post & Tail Length         .305 mm(.02 in)           Termination Post & Tail Length         .305 mm(.02 in)           Termination Method to Printed Circuit Board         Through Hole - Solder           Mechanical Attachment	PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness.76 µm[30 µin]Contact TypeSocketContact TypeSocketContact Current Rating (Max)3 ATermination Features	Contact Base Material	Copper Alloy
Contact TypeSocketContact Current Rating (Max)3 ATermination FeaturesRectangular Termination Post & Tail Thickness.25 mm[.01 in]Rectangular Termination Post & Tail Width.58 mm[.023 in]Termination Post & Tail Length3.05 mm[.12 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical AttachmentPCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount RetentionNorthPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionScrew MountPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionNorthPCB Mount RetentionScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentWithoutPCB Mount Ing TypeBoard MountHousing MaterialThermoplasticDimensionsScrew Mount, In]PCB Thickness (Recommended)2.36 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.726 in]Usage ConditionsHigh	Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)3 AContact Current Rating (Max)3 ATermination Features.25 mm[.01 in]Rectangular Termination Post & Tail Middh.58 mm[.023 in]Termination Post & Tail Length.05 mm[.12 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical Attachment	Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Termination Features       .25 mm[.01 in]         Rectangular Termination Post & Tail Ukidth       .58 mm[.023 in]         Termination Post & Tail Length       .305 mm[.12 in]         Termination Method to Printed Circuit Board       Through Hole - Solder         Wethanical Attachment         PCB Mount Alignment Type       Screw Mount         PCB Mount Retention Type       Mounting Hole         Mating Alignment       Without         PCB Mount Alignment       Without         PCB Mount Retention Type       Board Mount         PCB Mount Alignment       Without         PCB Mount Alignment       Without         PCB Mount Retention       Without         PCB Mount Retention       Without         PCB Mount Alignment       Mount         PCB Mount Alignment       Without         PCB Mount Alignment       Mount         PCB Mount Alignment       Without         PCB Mount Alignment       Disord Mount         PCB Mount Alignment       Board Mount         PCB Mount Alignment       2.54 mm[.1 in]         Housing Features       Inermoplastic         Connector Height       18.39 mm[.723 in]         PCB Thickness (Recommended)       .36 mm[.76 in]         Usage Conditions<	Contact Type	Socket
Rectangular Termination Post & Tail Thickness.25 mm[.01 in]Rectangular Termination Post & Tail Width.58 mm[.023 in]Termination Post & Tail Length3.05 mm[.12 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical AttachmentPCB Mount Alignment TypePCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount RetentionMountPCB Mount AlignmentScrew MountPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentWithoutPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountPCB Mount AlignmentScrew MountIndusing FeaturesScrew MountConnector Mounting TypeScrew MountInsign MaterialThermoplasticDimensionsScrew MountConnector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsScrew MountHousing Temperature RatingHigh	Contact Current Rating (Max)	3 A
Rectangular Termination Post & Tail Width.58 mm[.023 in]Termination Post & Tail Length3.05 mm[.12 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical AttachmentPCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Index (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensionsImensionsConnector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsImensionsHousing Temperature RatingHigh	Termination Features	
Termination Post & Tail Length3.05 mm[.12 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical AttachmentPCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Induct AlignmentWithoutPCB Induct AlignmentScrew MountHousing Features2.54 mm[.1 in]Centerline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensions2.36 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.723 in]Usage Conditions1.30 mm[.723 in]Housing Temperature RatingHigh	Rectangular Termination Post & Tail Thickness	.25 mm[.01 in]
Termination Method to Printed Circuit BoardThrough Hole - SolderMechanical AttachmentThrough Hole - SolderPCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentWithoutConnector Mounting TypeBoard MountHousing FeaturesImage: Connector MountCenterline (Pitch)2.54 mm[.1 in]I Connector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsImage: Connector RatingHousing Temperature RatingHigh	Rectangular Termination Post & Tail Width	.58 mm[.023 in]
Hechanical Attachment         PCB Mount Alignment Type       Screw Mount         PCB Mount Retention Type       Mounting Hole         Mating Alignment       Without         PCB Mount Retention       Without         PCB Mount Retention       Without         PCB Mount Retention       Without         PCB Mount Retention       Without         PCB Mount Alignment       Without         PCB Mount Alignment       Without         Connector Mounting Type       Board Mount         Housing Features       U         Centerline (Pitch)       2.54 mm[.1 in]         Housing Material       Thermoplastic         Connector Height       18.39 mm[.723 in]         PCB Thickness (Recommended)       2.36 mm[.76 in]         Usage Conditions       U	Termination Post & Tail Length	3.05 mm[.12 in]
PCB Mount Alignment TypeScrew MountPCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutPCB Mount AlignmentBoard MountPCB Mount AlignmentBoard MountPCB Mount AlignmentScrew MountPCB Mount AlignmentBoard MountPCB Mount AlignmentBoard MountHousing FeaturesScrew MountCenterline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensionsScrew MountConnector Height18.39 mm[.723 in]PCB Thickness (Recommended)3.36 mm[.76 in]Housing Temperature RatingHigh	Termination Method to Printed Circuit Board	Through Hole - Solder
PCB Mount Retention TypeMounting HoleMating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutConnector Mounting TypeBoard MountHousing Features2.54 mm[.1 in]Rousing MaterialThermoplasticDimensions18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Housing Temperature RatingHigh	Mechanical Attachment	
Mating AlignmentWithoutPCB Mount RetentionWithoutPCB Mount AlignmentWithoutConnector Mounting TypeBoard MountHousing FeaturesCenterline (Pitch)Centerline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensionsConnector HeightPCB Thickness (Recommended)2.36 mm[.723 in]Usage ConditionsLing MaterialHousing Temperature RatingHigh	PCB Mount Alignment Type	Screw Mount
PCB Mount Retention       Without         PCB Mount Alignment       Without         Connector Mounting Type       Board Mount         Housing Features       Enterline (Pitch)         Centerline (Pitch)       2.54 mm[.1 in]         Housing Material       Thermoplastic         Dimensions       Enterline (Pitch)         Connector Height       18.39 mm[.723 in]         PCB Thickness (Recommended)       2.36 mm[.76 in]         Usage Conditions       Enterline (Pitch)         Housing Temperature Rating       High	PCB Mount Retention Type	Mounting Hole
PCB Mount AlignmentWithConnector Mounting TypeBoard MountHousing FeaturesCenterline (Pitch)Centerline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensionsConnector HeightPCB Thickness (Recommended)18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsHusing Temperature RatingHousing Temperature RatingHigh	Mating Alignment	Without
Connector Mounting TypeBoard MountHousing Features2.54 mm[.1 in]Centerline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensions18.39 mm[.723 in]Connector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsHousing Temperature RatingHousing Temperature RatingHigh	PCB Mount Retention	Without
Housing Features         Centerline (Pitch)       2.54 mm[.1 in]         Housing Material       Thermoplastic         Dimensions       Tomplastic         Connector Height       18.39 mm[.723 in]         PCB Thickness (Recommended)       2.36 mm[.76 in]         Usage Conditions       Housing Temperature Rating	PCB Mount Alignment	With
Centerline (Pitch)2.54 mm[.1 in]Housing MaterialThermoplasticDimensionsThermoplasticConnector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsHigh	Connector Mounting Type	Board Mount
Housing Material       Thermoplastic         Dimensions       I8.39 mm[.723 in]         Connector Height       18.39 mm[.726 in]         PCB Thickness (Recommended)       2.36 mm[.76 in]         Usage Conditions       Housing Temperature Rating	Housing Features	
Dimensions         Connector Height       18.39 mm[.723 in]         PCB Thickness (Recommended)       2.36 mm[.76 in]         Usage Conditions       Housing Temperature Rating	Centerline (Pitch)	2.54 mm[.1 in]
Connector Height18.39 mm[.723 in]PCB Thickness (Recommended)2.36 mm[.76 in]Usage ConditionsHousing Temperature RatingHigh	Housing Material	Thermoplastic
PCB Thickness (Recommended) 2.36 mm[.76 in]   Usage Conditions Housing Temperature Rating	Dimensions	
Usage Conditions Housing Temperature Rating High	Connector Height	18.39 mm[.723 in]
Housing Temperature Rating High	PCB Thickness (Recommended)	2.36 mm[.76 in]
	Usage Conditions	
Operating Temperature Range -65 – 125 °C[-85 – 257 °F]	Housing Temperature Rating	High
	Operating Temperature Range	-65 – 125 °C[-85 – 257 °F]

PCB Mount Receptacle, Right Angle, Board-to-Board, 225 Position, .1 in [2.54 mm] Centerline, Gold, Through Hole - Solder, Signal, Black



#### **Operation/Application**

Circuit Application	Signal
Industry Standards	
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	2
Packaging Type	Tube
Product Compliance For compliance documentation, visit the product page on TE.com>	
EU RoHS Directive 2011/65/EU	Compliant
EU RoHS Directive 2011/65/EU EU ELV Directive 2000/53/EC	Compliant Compliant

Halogen Content

Solder Process Capability

BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.

Pin-in-Paste capable to 260°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**

PCB Mount Receptacle, Right Angle, Board-to-Board, 225 Position, .1 in [2.54 mm] Centerline, Gold, Through Hole - Solder, Signal, Black





# Customers Also Bought



RY612012	RY612005	FST-ZZA-ZZ	

# Documents

Product Drawings

ASSY, RECPT, R.ANGLE, HDI, LEAD-FR

English

**CAD** Files

3D PDF

3D

Customer View Model ENG\_CVM\_CVM\_1-5533268-2\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-5533268-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-5533268-2\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

**C** For support call+1 800 522 6752

PCB Mount Receptacle, Right Angle, Board-to-Board, 225 Position, .1 in [2.54 mm] Centerline, Gold, Through Hole - Solder, Signal, Black



# Datasheets & Catalog Pages

1-1773957-5\_AMP\_HDI\_BTB\_CONNECTORS\_EN

English

Product Specifications

Application Specification

English

Product Environmental Compliance

Product Compliance

English

Product Compliance

English

Instruction Sheets

Instruction Sheet (U.S.)

English