



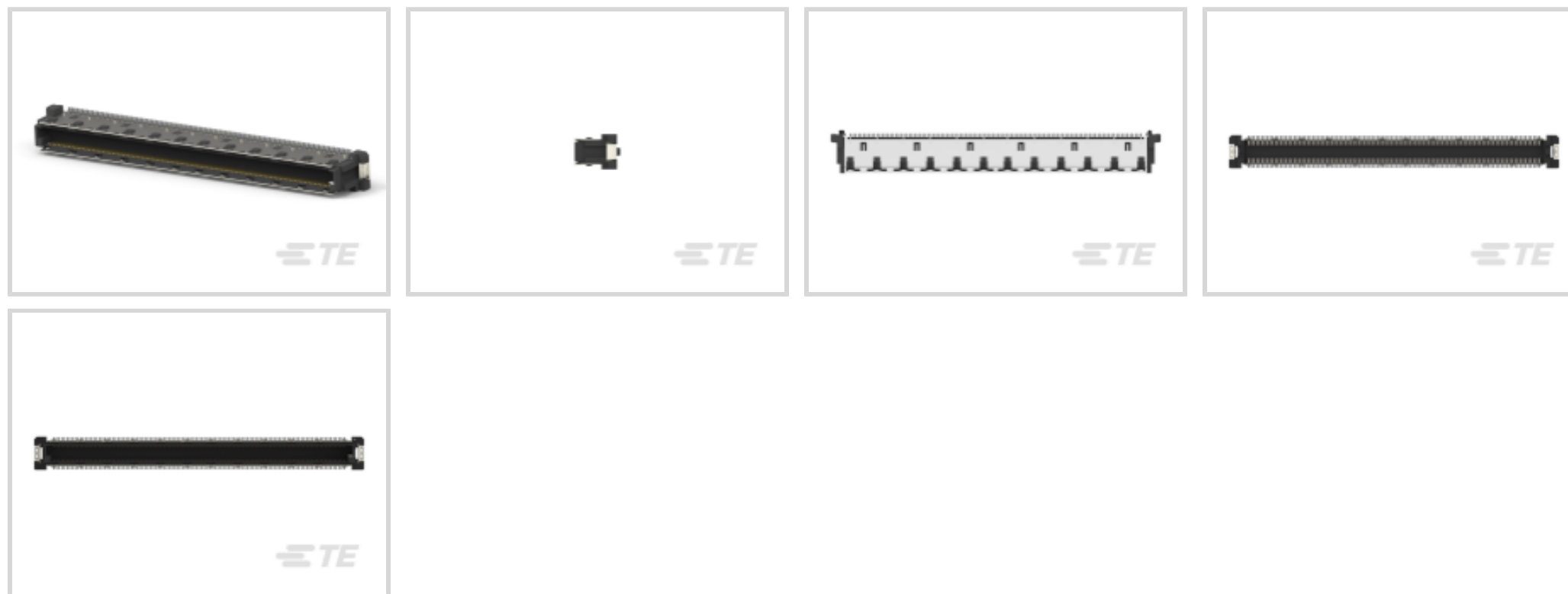
**Free Height**

TE Internal #: 9-6318491-6

PCB Mount Header, Vertical, Board-to-Board, 220 Position, .5 mm [.02 in] Centerline, Gold, Surface Mount, Signal, Black, Free Height

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **220**

Centerline (Pitch): **.5 mm [.02 in]**

**Features**

**Product Type Features**

Ground Feature Type	Grounding Contact, Grounding Plate
PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	220
Board-to-Board Configuration	Parallel

**Electrical Characteristics**

Dielectric Withstanding Voltage (Max)	200 VAC
Insulation Resistance	2 MΩ
Operating Voltage	50 VAC

**Body Features**

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Primary Product Color	Black
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### Contact Features

Contact Mating Area Length	1 mm, 1.3 mm
PCB Contact Termination Area Plating Material Thickness	1 $\mu$ m[39.37 $\mu$ in]
Contact Layout	Inline
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 $\mu$ m[8 $\mu$ in]
Contact Type	Pin
Contact Current Rating (Max)	.5 A

### Termination Features

Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Rectangular Termination Post & Tail Width	.71 mm[.028 in]
Termination Method to Printed Circuit Board	Surface Mount

### Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
PCB Mount Retention Type	Solder Peg
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	.5 mm[.02 in]
Housing Material	High Temperature Thermoplastic

### Dimensions

Connector Height	7.45 mm[.293 in]
Stack Height	8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm[.63 in]
	.2 in

### Usage Conditions



Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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### Operation/Application

Assembly Process Feature	Vacuum Cover
Circuit Application	Signal

### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Quantity	30
Packaging Type	Tray

### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Reflow solder capable to 245°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 # 8-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,SEYes



TE Part # 3-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes



TE Part # 3-1939756-6  
.5FHP08H,220,S,GIG,30/Sn,HT,NS



TE Part # 3-6318490-6  
.5FHR04H,220,S,GIG,08/Sn,HT,NSYes



TE Part # 6-5353606-6  
.5FHR04H,220,S,GIG,08/Sn,HT,SEYes



TE Part # 3-2040713-6  
.5FHP08H,220,S,GIG,30/Sn,TR,NS



TE Part # 3-1939755-6  
.5FHR04H,220,S,GIG,30/Sn,HT,NS




TE Part # 9-1939756-6  
.5FHP08H,220,S,GIG,30/Sn,HT,NS,WC



TE Part # 3-2040714-6  
.5FHR04H,220,S,GIG,30/Sn,TR,NSYes



TE Part # 4-1827253-6  
.5FHP05H,220,S,GIG,08/Sn,TR,NSYes




TE Part # 9-1827253-6  
.5FHP05H,220,S,GIG,30/Sn,HT,NSYes

Also in the Series | **Free Height**



PCB Headers & Receptacles(759)

Customers Also Bought



TE Part #9-1415536-1  
SR2ZY024



TE Part #650947-5  
096 EURO TYPE C PIN ST ASSY



TE Part #650408-5  
064 EURO TYPE C RECEPT ST ASSY



TE Part #5-103673-4  
5 MTE HDR SRRA LATCH W/HLDWN



## Documents

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_9-6318491-6\\_C1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_9-6318491-6\\_C1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_9-6318491-6\\_C1.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[COM Connectors Brochure \(English\)](#)

English

### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

[Product Compliance Document](#)

English

[Product Compliance Document](#)

English

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Gold, Surface Mount, Signal, Black, Free Height

