



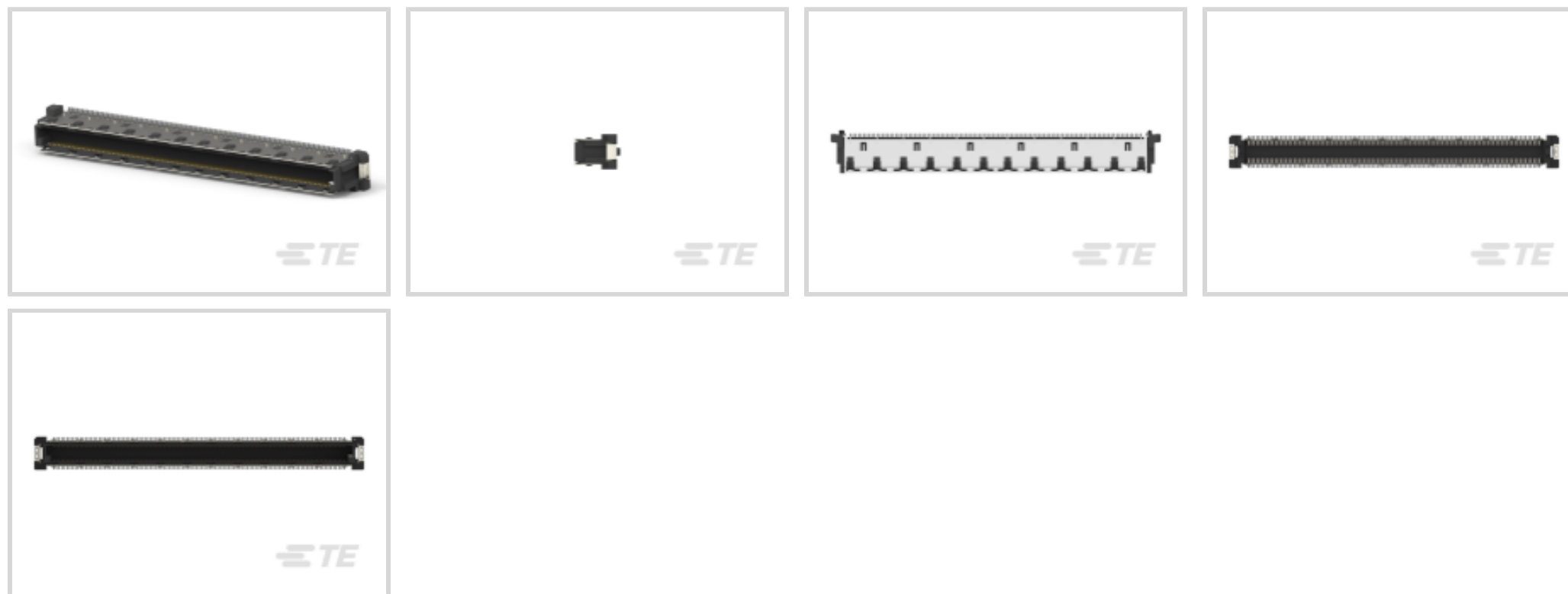
**Free Height**

TE Internal #: 8-6318491-6

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 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]
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 $\mu\text{m}$ [8 $\mu\text{in}$ ]
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, 12 mm[.472 in]
	.2 in

### Usage Conditions

Operating Temperature Range	-40 – 85 $^{\circ}\text{C}$ [-40 – 185 $^{\circ}\text{F}$ ]
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### Operation/Application

Circuit Application	Signal
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### 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>](#)

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 2022 (224) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 # 3-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes



TE Part # 9-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes, W/C



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



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



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



TE Part # 3-2040714-6  
.5FHR04H,220,S,GIG,30/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 #HPP845E031R4  
I.C 21D RH/T B400



TE Part #2178415-1  
MJ,RJ45,SMT,SHLD



TE Part #1-1123723-3  
3.96 EP HDR ASSY 3P(NATURAL)



TE Part #7-87499-2  
01 MODIV HSG COMP SR .100CL



TE Part #2-320561-2  
TERMINAL,PIDG R 16-14 6



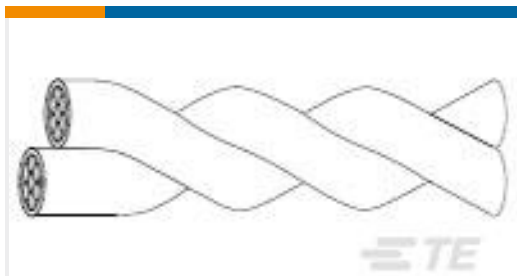
TE Part #680333-000  
D-609-13



TE Part #2134303-1  
GIC 2.5 HDR ASSY TIN VERSION 2/4P



TE Part #2013523-1  
GIC 2.5 HDR ASSY TIN VERSION 2/3P



TE Part #383760-002  
44A0121-24-0/2

## Documents

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_8-6318491-6\\_C1.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_8-6318491-6\\_C1.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_8-6318491-6\\_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

#### Product Specification

English

#### 0.5mm Pitch Board to Board Connector, Free Height Type

English

### Product Environmental Compliance

#### Product Compliance Document

English

8-6318491-6

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



## Product Compliance Document

English