

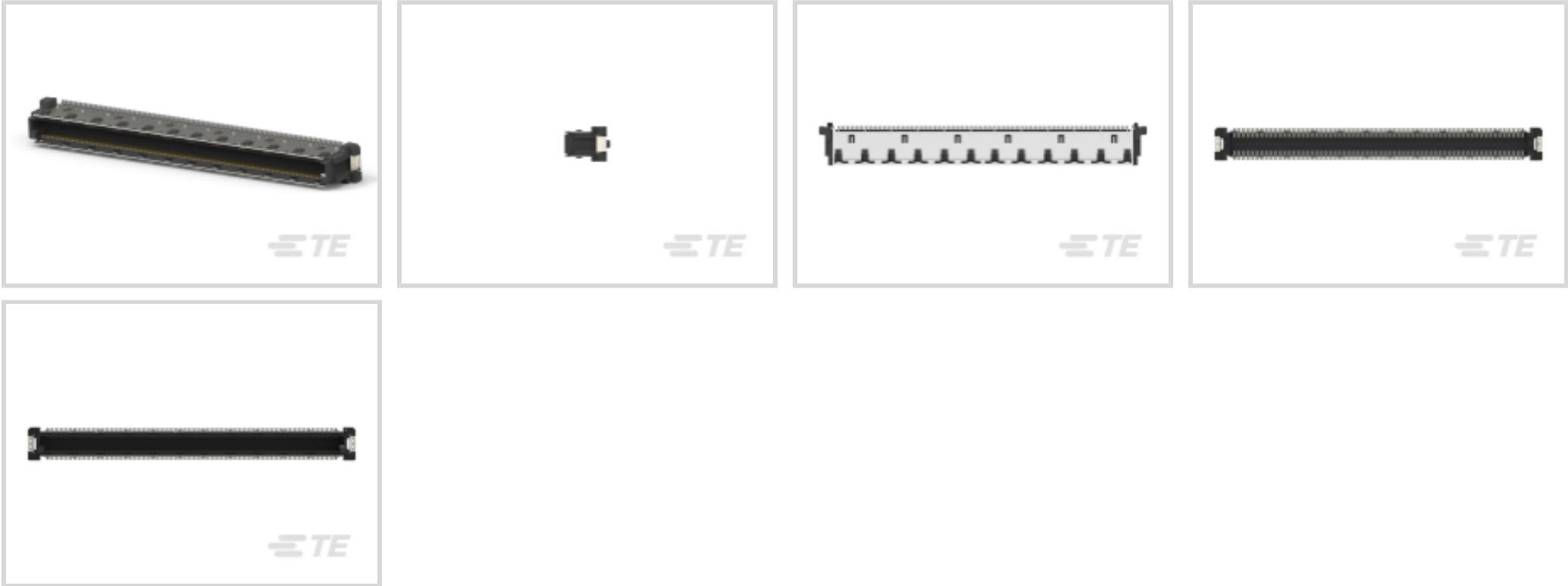


Free Height

TE Internal #: 3-6318491-6
Free Height, PCB Mount Header, Vertical, Board-to-Board, 220
Position, .5mm [.02in] Centerline, Gold, Printed Circuit Board

[View on TE.com >](#)

Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board 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 Component 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

Number of Rows	2
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



Contact Features

Contact Layout	Inline
Contact Mating Area Length	1 mm, 1.3 mm
PCB Contact Termination Area Plating Material Thickness	1 μm[39.37 μin]
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 μm[8 μin]
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 Color	Black
Housing Material	High Temperature Thermoplastic

Dimensions

Connector Height	7.45 mm[.293 in]
Stack Height	8 mm[.315 in]
	.2 in

Usage Conditions

Housing Temperature Rating	High
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Operating Temperature Range	-40 – 85 °C[-40 – 185 °F][-40 – 185 °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 Method	Hard Tray

Other

Comment	This product was coated by flux-penetration-inhibiting agent.
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Product Compliance

For compliance documentation, visit the product page on TE.com>

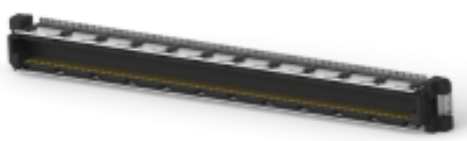
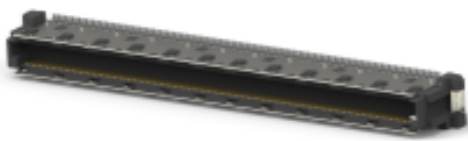
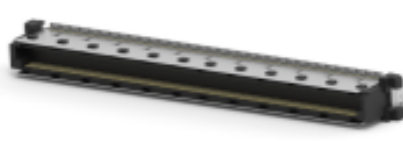
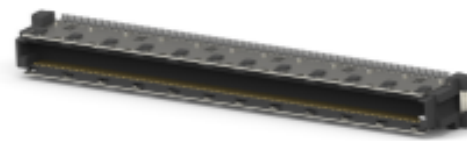
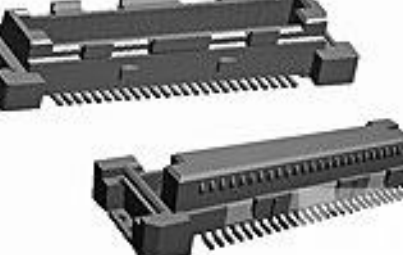
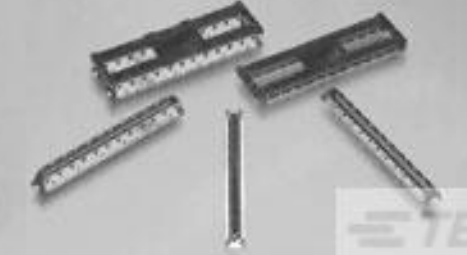
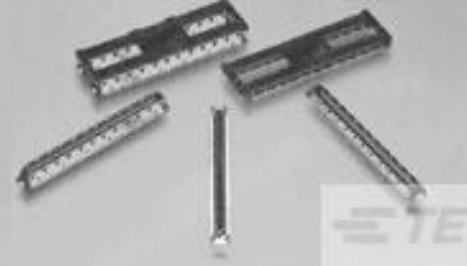
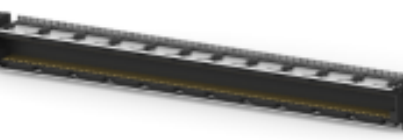
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not 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

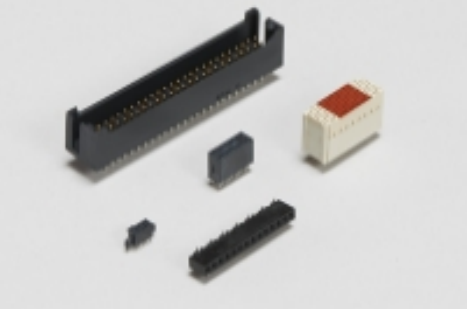
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 3-1827253-6 .5FHP05H,220,S,GIG,08/Sn,HT,NSYes	 TE Part # 8-6318491-6 .5FHP08H,220,S,GIG,08/Sn,HT,SEYes	 TE Part # 3-1939756-6 .5FHP08H,220,S,GIG,30/Sn,HT,NS	 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 # 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 # 9-1827231-6 .5FHR04H,440,B,GIG,30/Sn,HT,NS
 TE Part # 9-1827253-6 .5FHP05H,220,S,GIG,30/Sn,HT,NSYes	TE Part # 353594-3 0.5 FH BTB PLUG CONT		

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(764)



Customers Also Bought



TE Part #1367073-1
SFP Connectors



TE Part #1-2176168-0
Metal Chip Resistor: Current Sense



TE Part #1-1469492-9
MULTIGIG RT 9MM GUIDE/ESD UNKE



TE Part #1-5120521-1
Free Height Receptacle Conn: Board-Board, Vertical, 64, 1mm



TE Part #1-1879138-0
RN 0603 1K91 0.1% 10PPM 5K RL



TE Part #1-776200-5
AMPSEAL HEADERS



TE Part #8-1393480-2
V23529B1223B215=SUB D FEDERLEI

Documents

Product Drawings
[.5FHP08H,220,S,GIG,08/Sn,HT,NSYes](#)
English

CAD Files
[3D PDF](#)
3D
Customer View Model
[ENG_CVM_CVM_3-6318491-6_C1.2d_dxf.zip](#)
English
Customer View Model
[ENG_CVM_CVM_3-6318491-6_C1.3d_igs.zip](#)
English
Customer View Model
[ENG_CVM_CVM_3-6318491-6_C1.3d_stp.zip](#)
English

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

Datasheets & Catalog Pages
[Fine Pitch Stacking Connectors - 0.5mm Free Height \(FH\) Connectors](#)
English
[Stacking Connectors Quick Reference Guide \(English\)](#)
English
[COM Connectors Brochure \(English\)](#)
English



Product Specifications

Product Specification

English

0.5mm Pitch Board to Board Connector, Free Height Type

English

Product Environmental Compliance

MD_3-6318491-6_04102018910_dmtec

English

MD_3-6318491-6_04102018910_dmtec

English

Agency Approvals

UL

English