

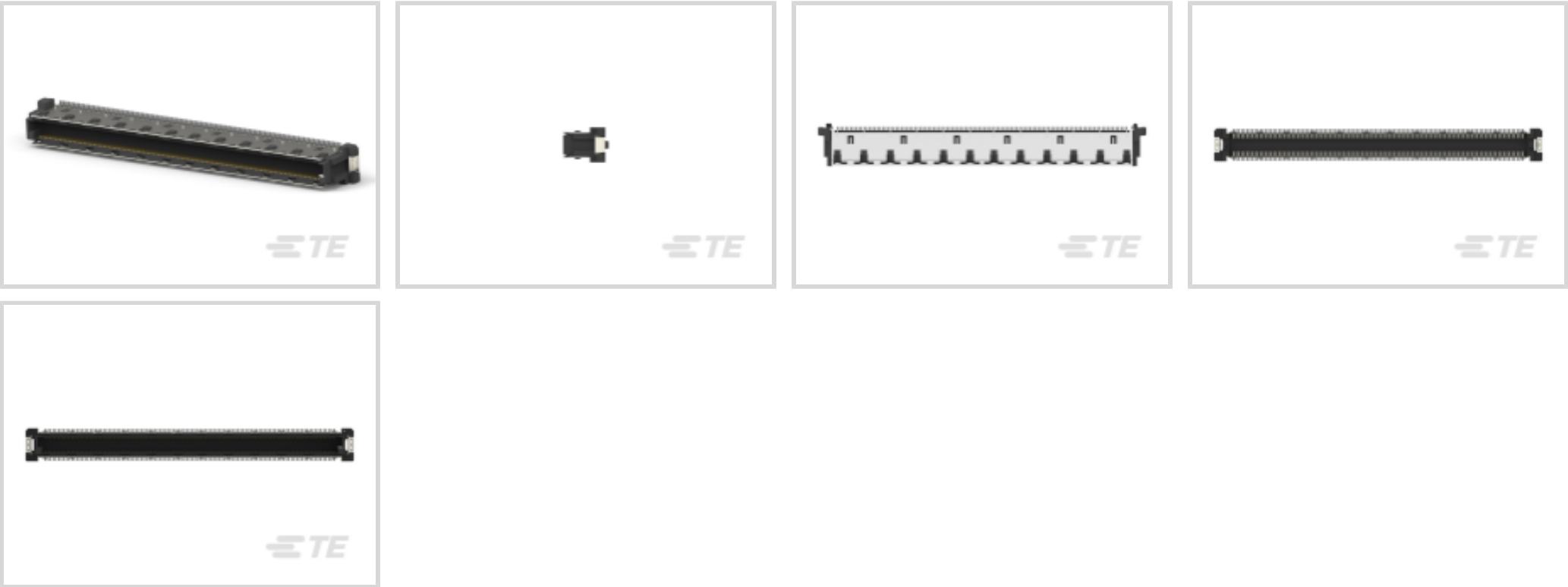


Free Height

TE Internal #: 9-6318491-6  
PCB Mount Header, Vertical, Board-to-Board, 220 Position, .5 mm [.02 in] Centerline, Gold, Surface Mount, Signal, Black, Tray, Free Height

[View on TE.com >](#)

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



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 µm[39.37 µin]
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 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 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

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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 Method	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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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(758)

Customers Also Bought

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

TE Part #1-103908-0  
[11 MTE HDR SRST LATCH W/HLDWN](#)

TE Part #1-1623773-3  
[C10 1R0 5% \(LOOSE\)](#)

TE Part #8-2176388-5  
[RQ 1206 75R 0.1% 10PPM 5K RL](#)



TE Part #2857533007  
44A0111-26-3

TE Part #1-1747981-1  
Std HDMI, RA, SMT, Panel grd, Flange

TE Part #225251-E  
M12 MALE, A CODE, RA, 5P THR  
REAR MOUNT

TE Part #234208-E  
SMCQ 50 M AB VV 8-23 CL \* H007 137  
E005

TE Part #ZPF000000000018377  
FDBA 50-20-39 PN-K-B6144

TE Part #ZPF000000000018639  
FDBA 50-8 E1 PN 090

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