

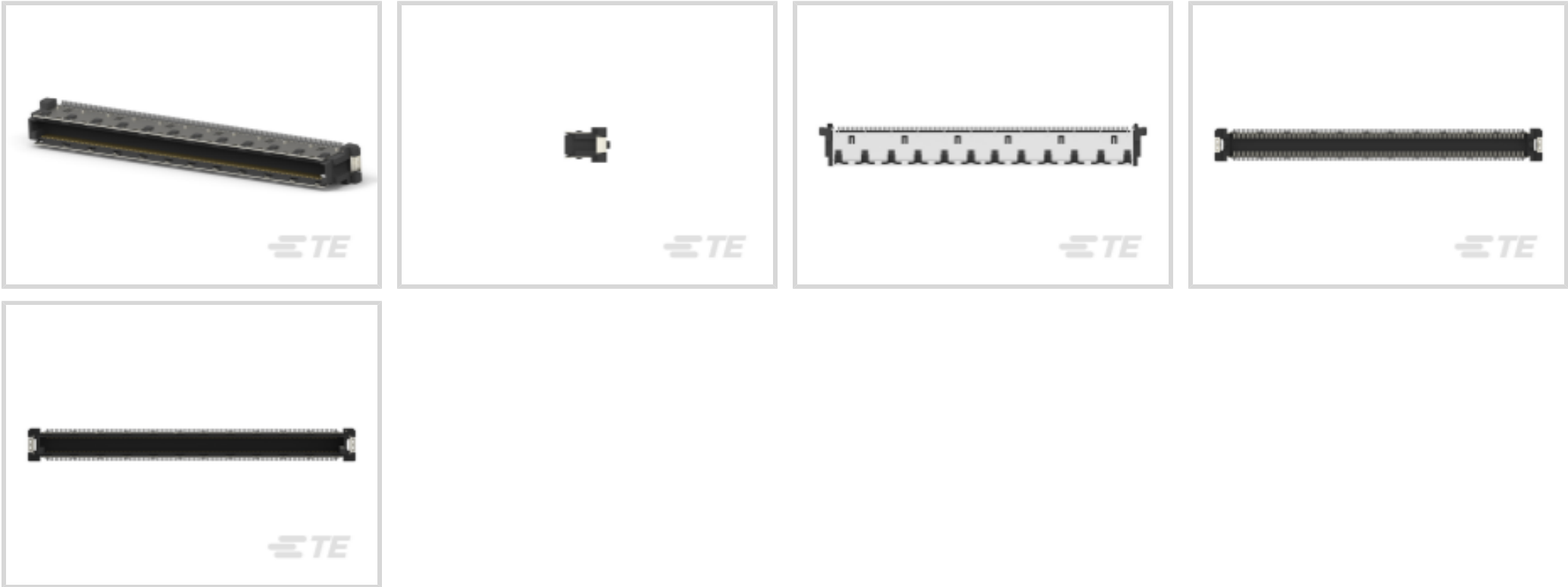


Free Height

TE Internal #: 8-6318491-6
PCB Mount Header, Vertical, Board-to-Board, 220 Position, .5 mm [.02 in] Centerline, Gold, Surface Mount, Signal, Black, 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

Electrical Characteristics

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

Dimensions

Stack Height	8 mm, 12 mm[.472 in] .2 in
Connector Height	7.45 mm[.293 in]

Packaging Features

Packaging Quantity	30
Packaging Method	Tray

Mechanical Attachment

Mating Alignment Type	Polarization
PCB Mount Retention Type	Solder Peg
PCB Mount Alignment Type	Locating Posts



PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

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

Contact Features

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

Housing Features

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

Configuration Features

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

Product Type Features

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

Body Features



Primary Product Color	Black
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Usage Conditions

Operating Temperature Range	-40 – 85 °C[-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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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Compliance

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

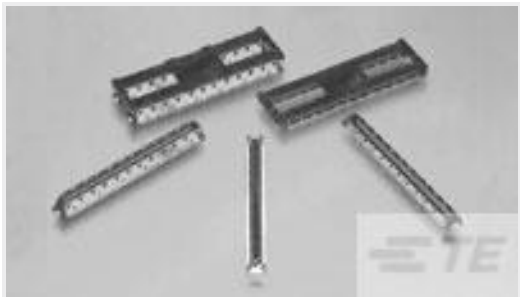
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does 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

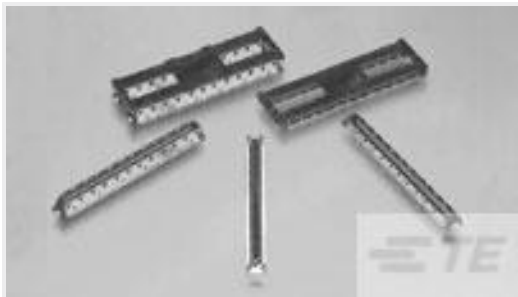
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 6-5353606-6
[.5FHR04H,220,S,GIG,08/Sn,HT,SEYes](#)



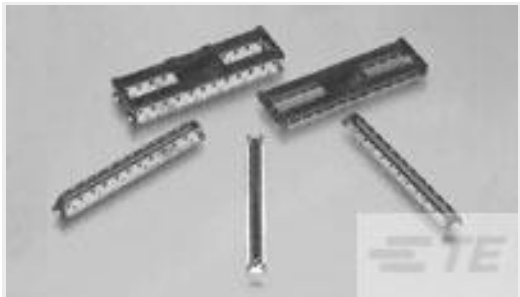
TE Part # 9-1827253-6
[.5FHP05H,220,S,GIG,30/Sn,HT,NSYes](#)



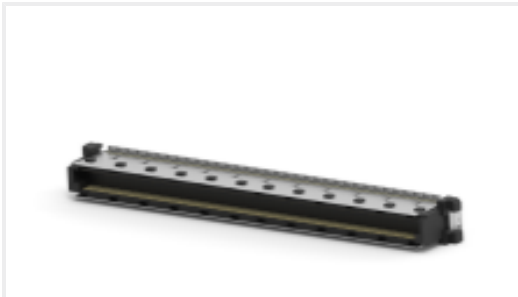
TE Part # 3-2040713-6
[.5FHP08H,220,S,GIG,30/Sn,TR,NS](#)



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



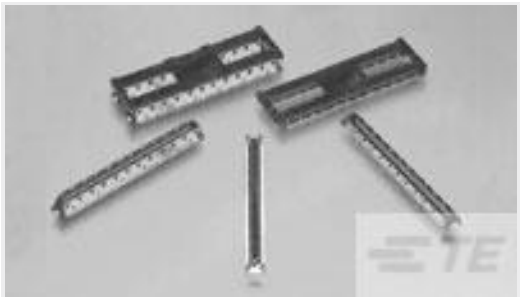
TE Part # 9-1939756-6
[.5FHP08H,220,S,GIG,30/Sn,HT,NS,WC](#)



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



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



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

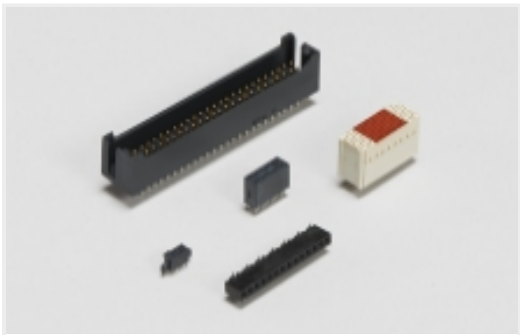


TE Part # 3-2040714-6
[.5FHR04H,220,S,GIG,30/Sn,TR,NSYes](#)

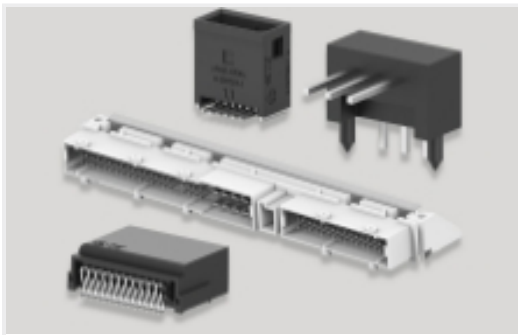


TE Part # 9-6318491-6
[.5FHP08H,220,S,GIG,08/Sn,HT,NSYes, W/C](#)

Also in the Series | [Free Height](#)



[Board-to-Board Headers & Receptacles\(751\)](#)

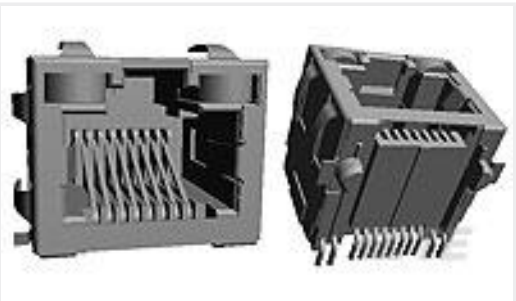


[PCB Headers & Receptacles\(751\)](#)

Customers Also Bought



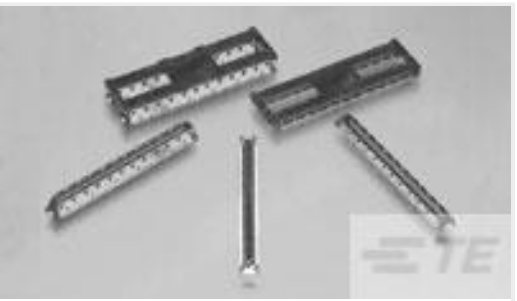
TE Part #5499141-3
A/L UNIV HDR 16P RA LG LAT



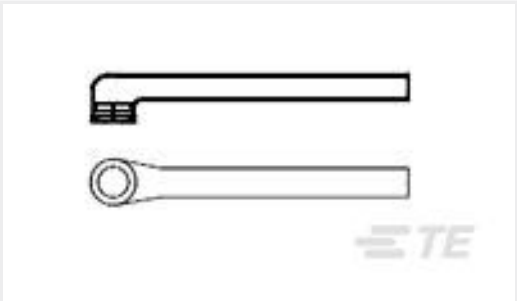
TE Part #2178415-1
MJ,RJ45,SMT,SHLD



TE Part #2132781-4
04P EP-II HOUSING, NATURAL



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



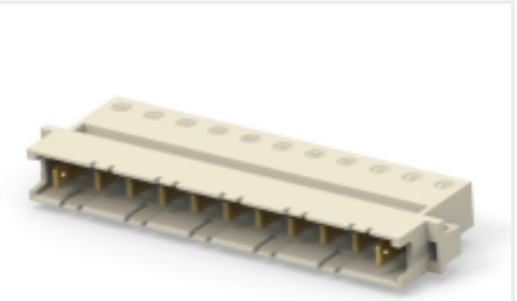
TE Part #234461-000
222D132-25/225-0



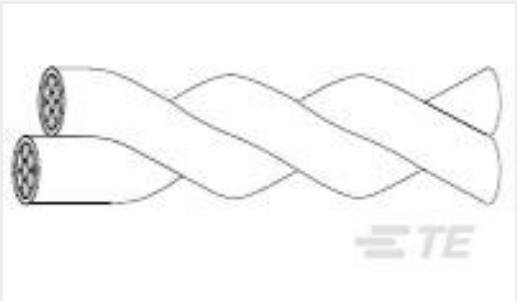
TE Part #2-406541-1
MJ,INV,1X1,2PNL G,.100"ST,SN



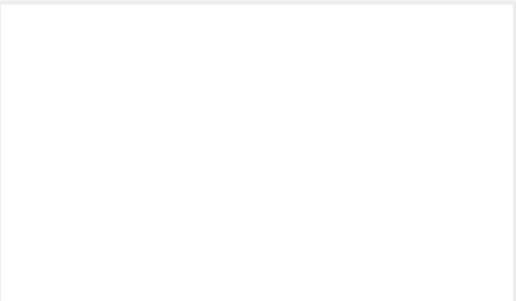
TE Part #2174219-1
Push-Pull 7P Plug PS S-Cup Cont KIT/N



TE Part #233235-E
STVH11 11 M B V 3-00 LA * B048 199 E 016



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



TE Part #YW324TZ11-23PN-151
RECEPT ASSY.JAM NUT. PCB. Z/N.

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