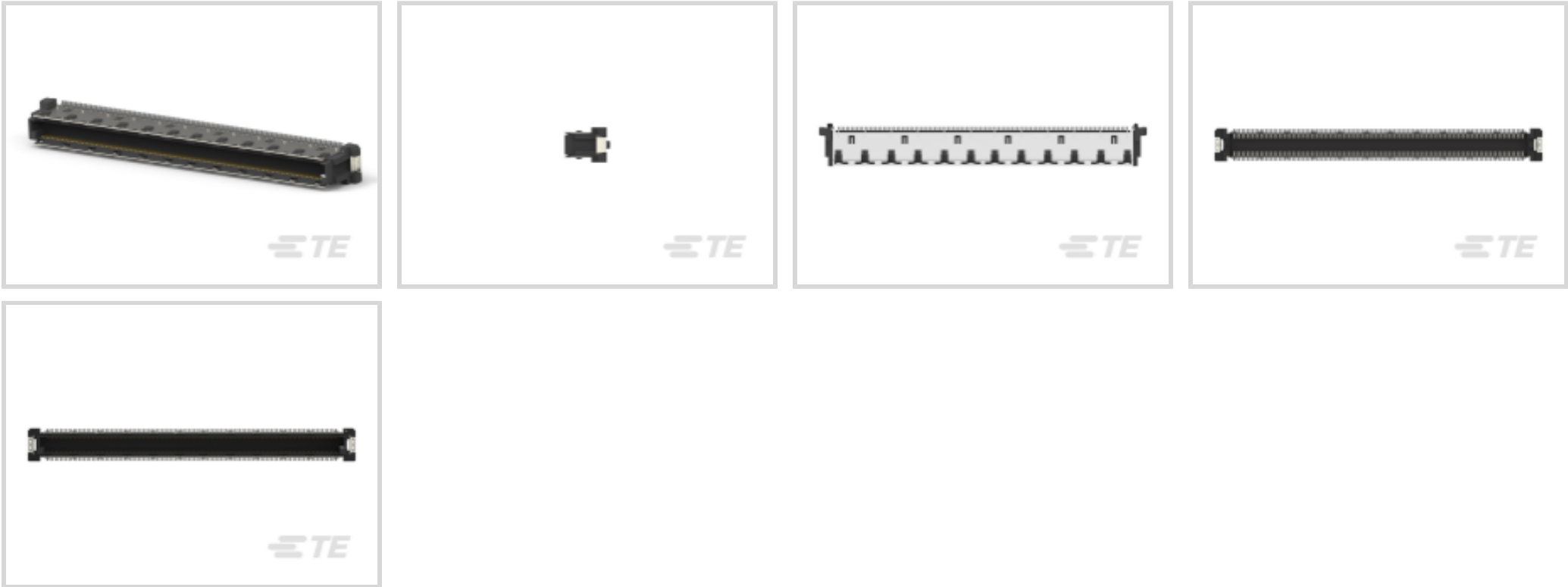




Free Height

TE Internal #: 8-6318491-6
PCB Mount Header, Vertical, Board-to-Board, 220 Position, .5 mm [.02 in] Centerline, Gold (Au), Surface Mount, Signal, Black, Tray,
Free Height
[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector 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 Type	PCB Mount Header
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

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

Electrical Characteristics

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



Body Features

Primary Product Color	Black
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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 mm, 1.3 mm
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
Contact Current Rating (Max)	.5 A

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

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

Housing Features

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

Dimensions

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

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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Packaging Features

Packaging Quantity	30
Packaging Method	Tray

Product Compliance

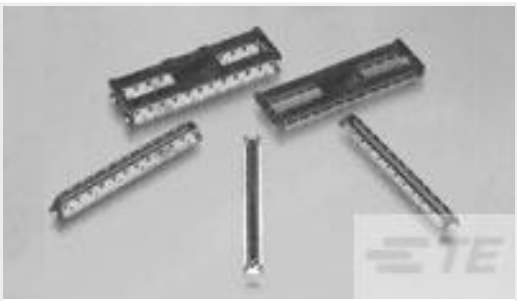
For compliance documentation, visit the product page on TE.com>

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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>

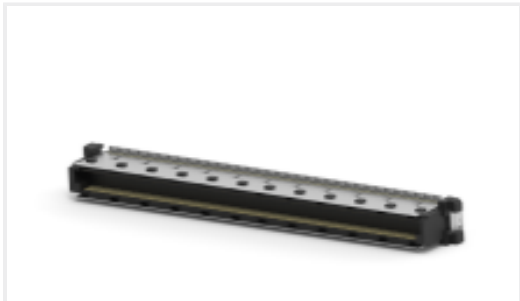
Compatible Parts



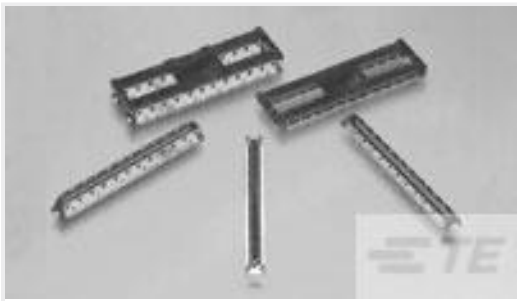
TE Part # 3-2040714-6
.5FHR04H,220,S,GIG,30/Sn,TR,NSYes



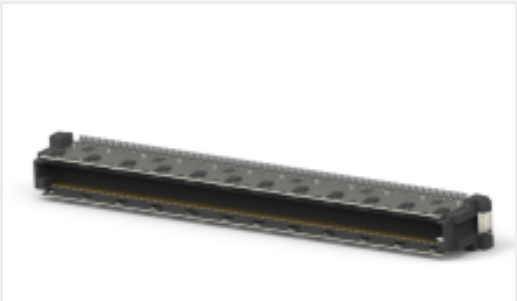
TE Part # 3-6318490-6
.5FHR04H,220,S,GIG,08/Sn,HT,NSYes



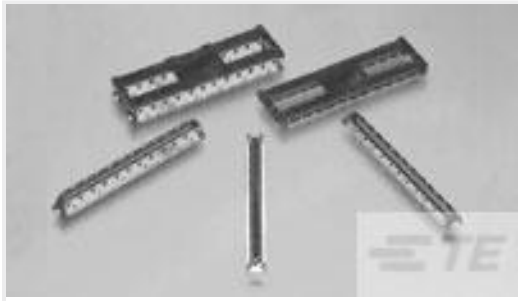
TE Part # 3-1939756-6
.5FHP08H,220,S,GIG,30/Sn,HT,NS



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



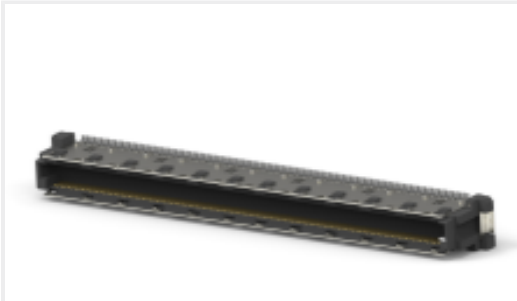
TE Part # 9-6318491-6
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes, W/C



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



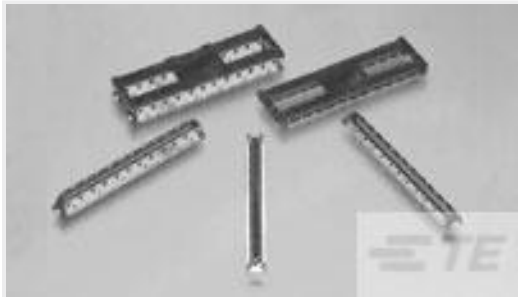
TE Part # 3-2040713-6
.5FHP08H,220,S,GIG,30/Sn,TR,NS



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

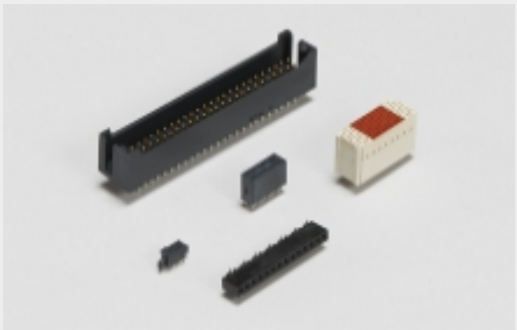


TE Part # 9-1827253-6
.5FHP05H,220,S,GIG,30/Sn,HT,NSYes

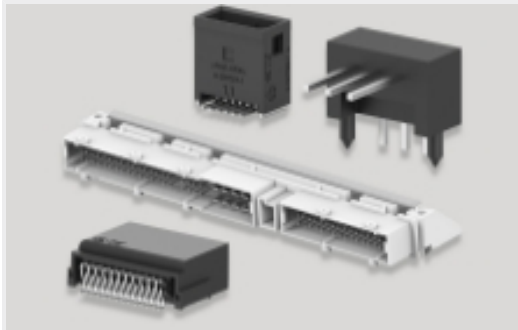


TE Part # 6-5353606-6
.5FHR04H,220,S,GIG,08/Sn,HT,SEYes

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(747)



PCB Headers & Receptacles(747)

Customers Also Bought



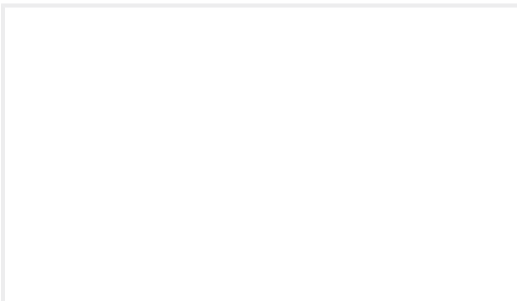
TE Part #1746975-1
GRACE INERTIA CONNECTOR 6.2 MM PITCH 2P P



TE Part #6-1879011-7
SMF2 120K 5%



TE Part #2311995-3
EP2.5 HDR ASSY 3P VERT, GW,NO PIN 2

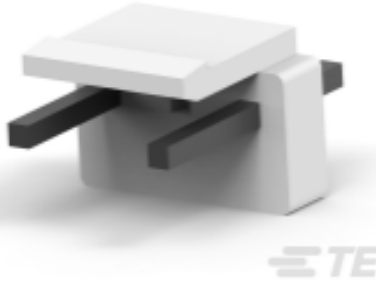


TE Part #AAB1780-00
91H1-13-11-1-C-HE200





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



TE Part #4-1744524-3
[3.96 EP HDR ASY 03P ,NO 2 PIN, GW](#)



TE Part #5-147278-7
[08 MTE HDR SRRA SFMNT .100CL](#)

TE Part #MC506E-N-13-4SA
[MC5 PLUG SIZE 13-4 NICKEL SOCKET A-ORIE](#)

TE Part #YW324TZ09-11PN-151
[RECEPT ASSY.JAM NUT. PCB. Z/N.](#)

TE Part #YW324TZ09-11PB-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