

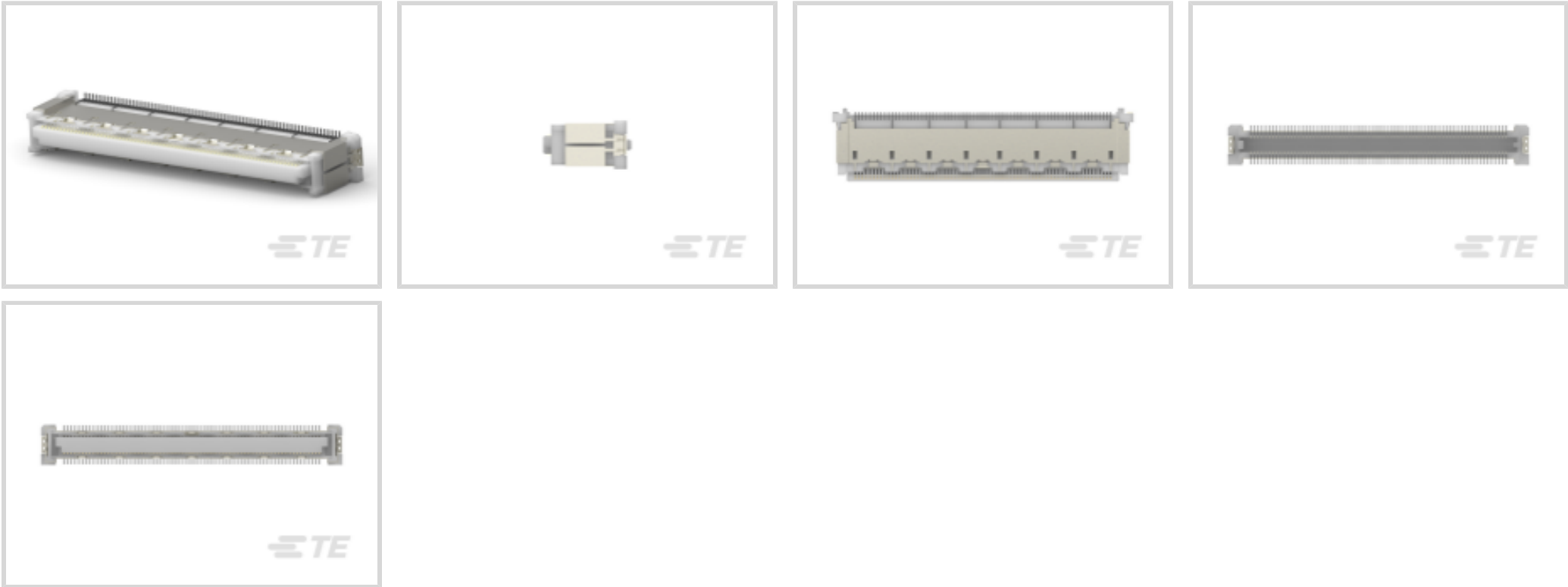


Free Height

TE Internal #: 1-5316318-0
PCB Mount Receptacle, Vertical, Board-to-Board, 140 Position, .6 mm [.024 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 Receptacle**
PCB Mount Orientation: **Vertical**
Connector System: **Board-to-Board**
Number of Positions: **140**
Centerline (Pitch): **.6 mm [.024 in]**

Features

Product Type Features

Ground Feature Type	Grounding Contact, Grounding Plate
PCB Connector Type	PCB Mount Receptacle
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	140

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[7.874 µin]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Layout	Inline
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.9 mm[.035 in]
Rectangular Termination Post & Tail Thickness	.15 mm[.006 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)	.6 mm[.024 in]

Dimensions

Stack Height	12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 18 mm[.709 in]
Connector Height	12 mm[.472 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: 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 260°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



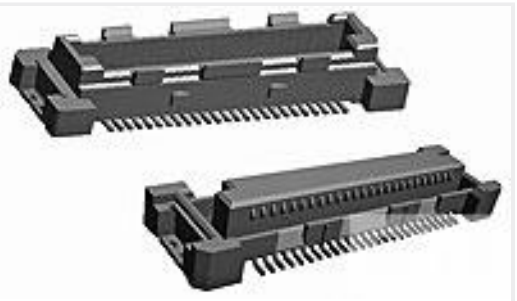
TE Part # 1-6123582-0
[.6FHP10H,140,S,GIG,08/Sn,ST,NSYes](#)



TE Part # 1-5316316-0
[.6FHP08H,140,S,GIG,08/Sn,HT,SEYes](#)



TE Part # 1-5353831-0
[.6FHP07H,140,S,GIG,08/Sn,TR,NS](#)



TE Part # 1-5353186-0
[.6FHP06H,140,S,GIG,08/Sn,TR,NSYes](#)



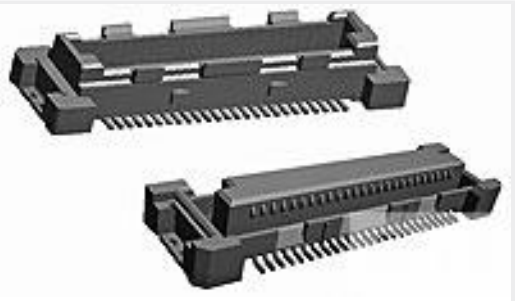
TE Part # 1-5353187-0
[.6FHP08H,140,S,STD,08/Sn,TR,NSYes](#)



TE Part # 1-5353188-0
[.6FHP08H,140,S,GIG,08/Sn,TR,NSYes](#)



TE Part # 1-5316135-0
[.6FHP04H,140,S,STD,08/Sn,ST,NSYes](#)



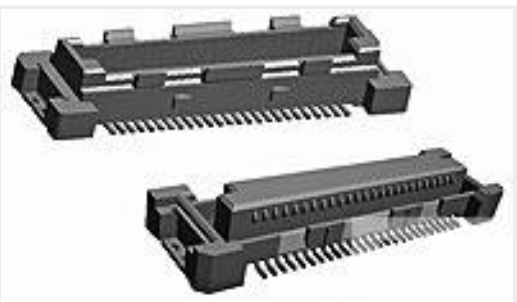
TE Part # 1-5353184-0
[.6FHP04H,140,S,GIG,08/Sn,TR,NSYes](#)



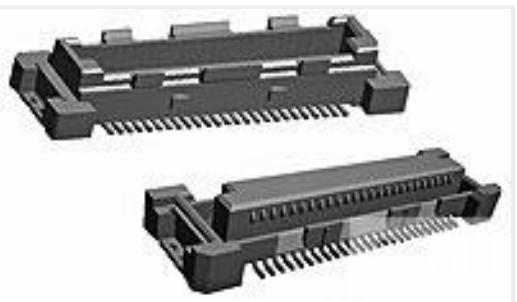
TE Part # 6473225-1
[.6FHP12H,140,S,GIG,08/Sn,ST,NSYes](#)



TE Part # 1-5316559-0
[.6FHP04H,140,S,GIG,08/Sn,HT,SEYes](#)



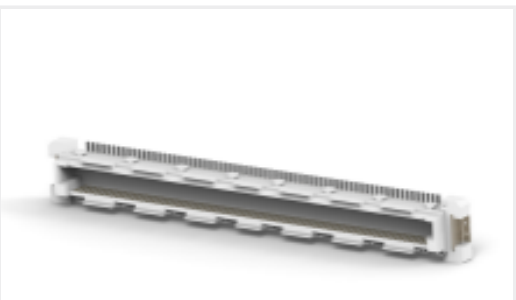
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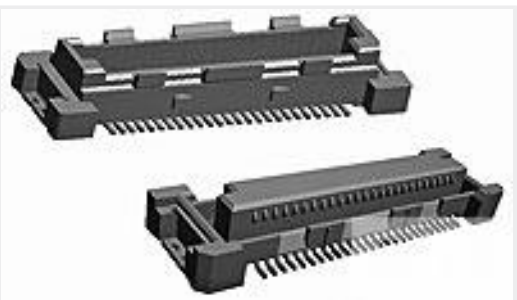
TE Part # 6-5316562-0
[.6FHP08H,140,S,GIG,08/Sn,ST,SEYes](#)



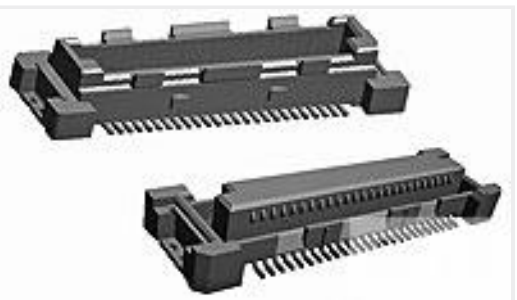
TE Part # 6-5353184-0
[.6FHP04H,140,S,GIG,08/Sn,TR,SEYes](#)



TE Part # 1-5353183-0
[.6FHP04H,140,S,STD,08/Sn,TR,NSYes](#)



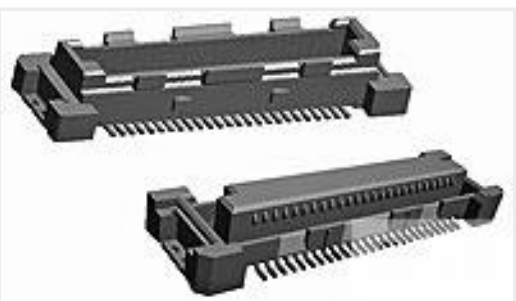
TE Part # 6-5316316-0
[.6FHP08H,140,S,GIG,08/Sn,H/T](#)



TE Part # 1-5316562-0
[.6FHP08H,140,S,GIG,08/Sn,ST,NSYes](#)

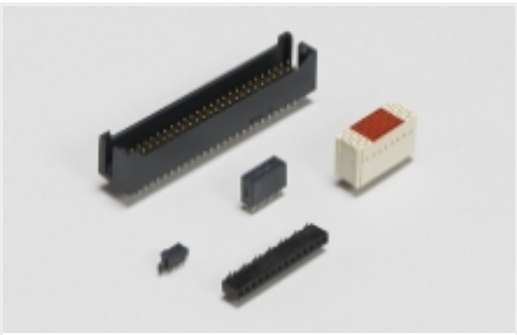


TE Part # 1-5353185-0
[.6FHP06H,140,S,STD,08/Sn,TR,NSYes](#)

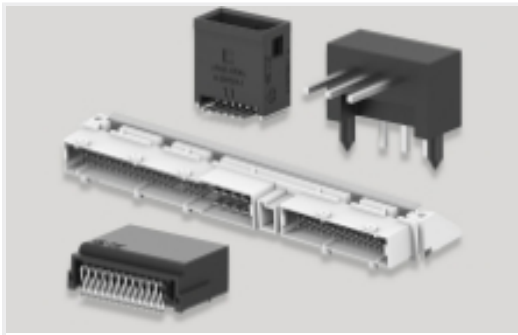


TE Part # 4-5353184-0
[.6FHP04H,140,S,GIG,30/Sn,TR,NSYes](#)

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



[Board-to-Board Headers & Receptacles\(747\)](#)



[PCB Headers & Receptacles\(747\)](#)

Customers Also Bought



TE Part #1-1827583-2
[DYNAMIC 1500T HDR ASSY H 6P
BLACK GOLD](#)



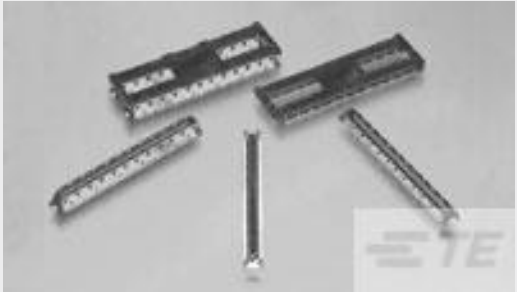
TE Part #3-1625867-8
[RP 1J 0.166W 15R 0.1% 25PPM 1K RL](#)



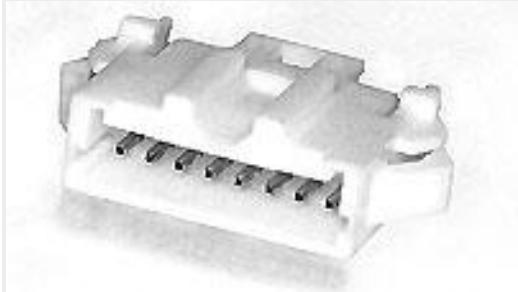
TE Part #5787956-1
[SOCKET ASSY IEEE1394](#)



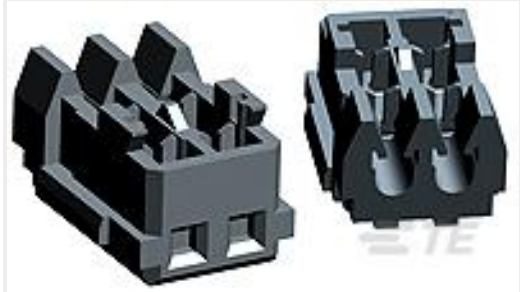
TE Part #543633P064
[SCT-NO.1-E6-0-STK](#)



TE Part #3-1827231-6
[.5FHR04H,440,B,GIG,08/Sn,HT,NS](#)



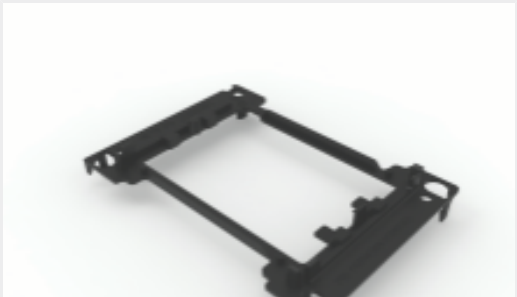
TE Part #1-292215-5
[MINI CT SGL RELAY 15P NAT](#)



TE Part #1-353293-5
[1.5 MINI-CT RECEPTACLE](#)



TE Part #2-5331272-7
[SOCKET,MIN-SPR SN-AU SER-2](#)



TE Part #2299806-1
[NRW NON-FABRIC , SOCKET P0](#)



TE Part #2299804-1
[NRW NON-FABRIC BOLSTER,P0,W/
COVER](#)

Documents

Product Drawings

[.6FHR12H,140,S,GIG,08/Sn,HT,SEYes](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-5316318-0_B1.2d_dxf.zip](#)



English

Customer View Model
[ENG_CVM_CVM_1-5316318-0_B1.3d_igs.zip](#)

English

Customer View Model
[ENG_CVM_CVM_1-5316318-0_B1.3d_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 - 0.6mm Free Height \(FH\) and GIGA Connectors](#)

English

Product Specifications
[Application Specification](#)

English