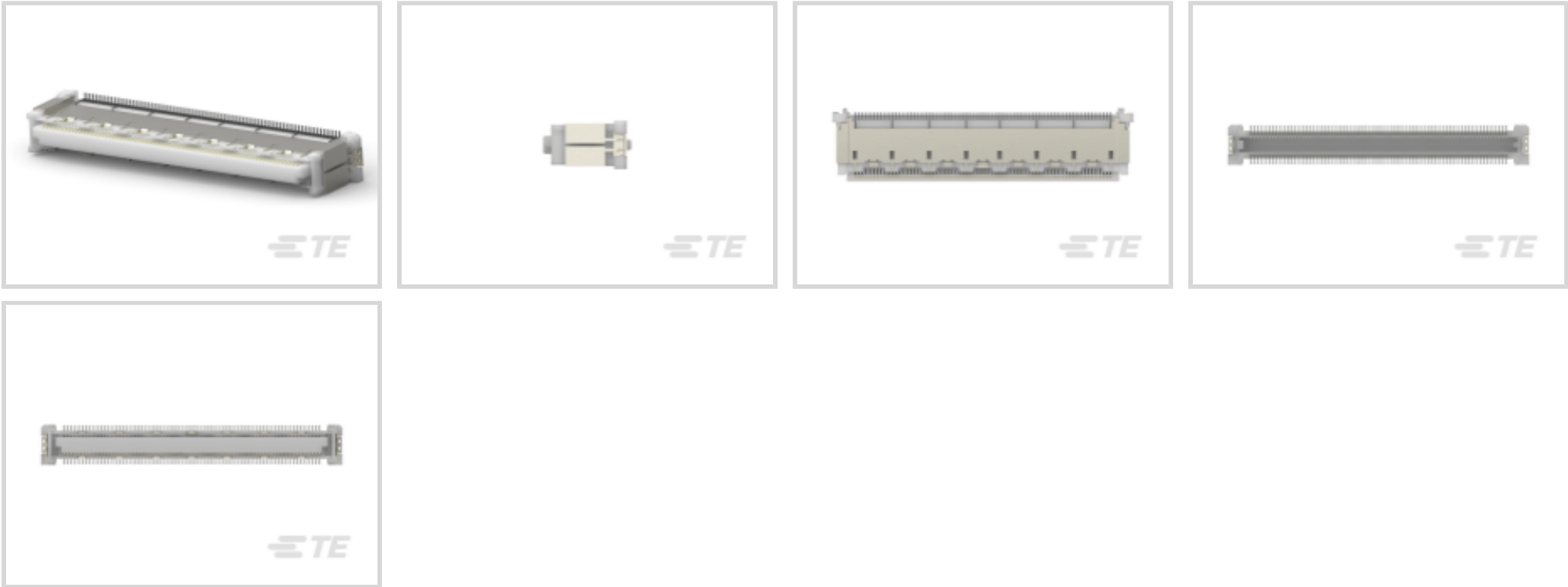




Free Height

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

Features

Electrical Characteristics

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

Dimensions

Stack Height	18 mm, 14 mm, 15 mm, 12 mm, 13 mm, 16 mm[.709 in] .2 in
Connector Height	12 mm[.472 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	.9 mm[.035 in]
Rectangular Termination Post & Tail Thickness	.15 mm[.006 in]
Termination Method to PCB	Surface Mount

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
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Housing Features

Housing Material	High Temperature Thermoplastic
Centerline (Pitch)	.6 mm[.024 in]

Configuration Features

Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	140

Product Type Features

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

Body Features

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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 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 # 1-5316562-0
.6FHP08H,140,S,GIG,08/Sn,ST,NSYes



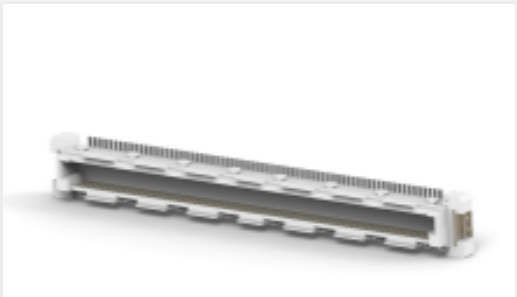
TE Part # 4-5353184-0
.6FHP04H,140,S,GIG,30/Sn,TR,NSYes



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



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



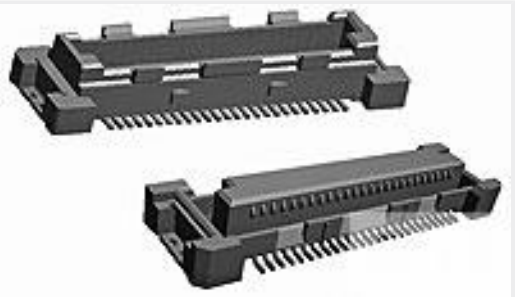
TE Part # 1-5353183-0
.6FHP04H,140,S,STD,08/Sn,TR,NSYes



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



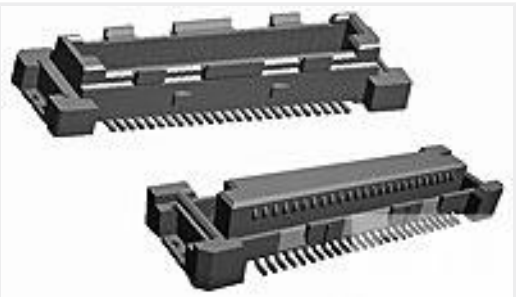
TE Part # 1-5353831-0
.6FHP07H,140,S,GIG,08/Sn,TR,NS



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



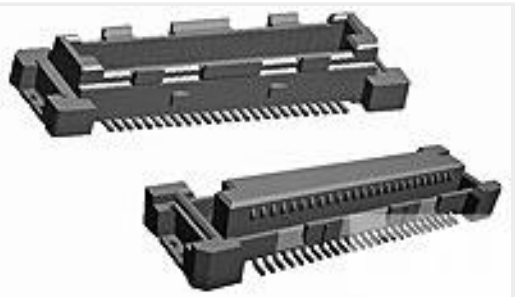
TE Part # 1-5353188-0
.6FHP08H,140,S,GIG,08/Sn,TR,NSYes



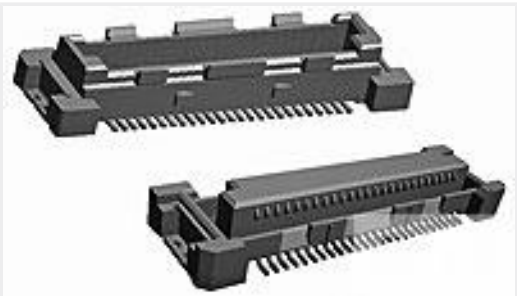
TE Part # 1-5353184-0
.6FHP04H,140,S,GIG,08/Sn,TR,NSYes



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



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



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



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



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



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

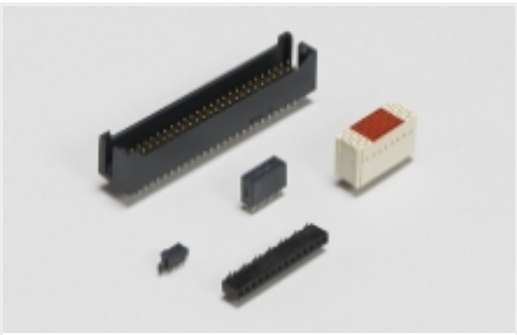


TE Part # 1-5316559-0
.6FHP04H,140,S,GIG,08/Sn,HT,SEYes

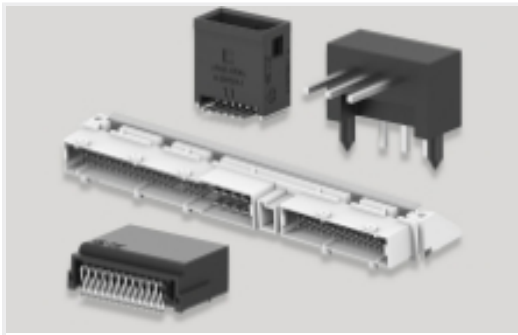


TE Part # 6-5353188-0
.6FHP08H,140,S,GIG,08/Sn,TR,SEYes

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



Board-to-Board Headers & Receptacles(751)



PCB Headers & Receptacles(751)

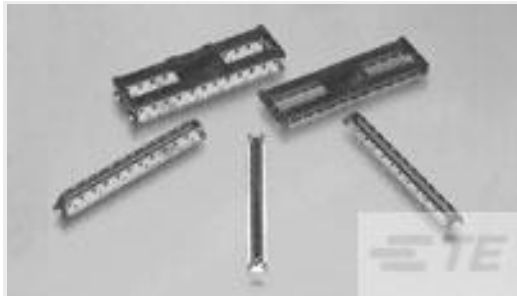
Customers Also Bought



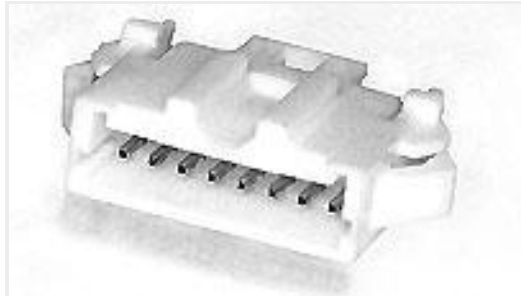
TE Part #543633P064
SCT-NO.1-E6-0-STK



TE Part #2-5331272-7
SOCKET,MIN-SPR SN-AU SER-2



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



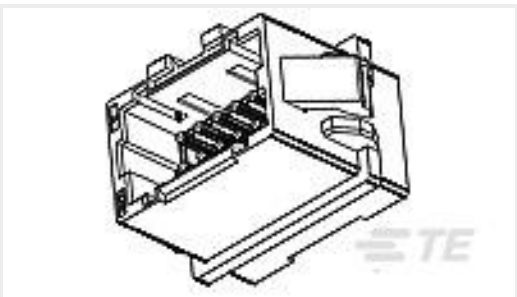
TE Part #1-1827583-2
DYNAMIC 1500T HDR ASSY H 6P
BLACK GOLD



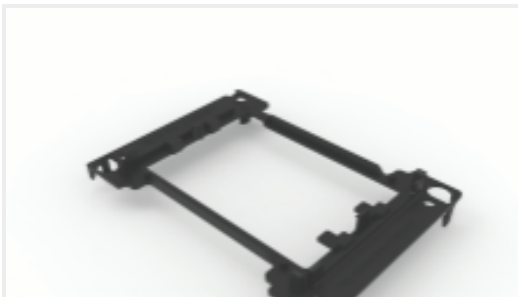
TE Part #5787956-1
SOCKET ASSY IEEE1394



TE Part #2299804-1
NRW NON-FABRIC BOLSTER,P0,W/
COVER



TE Part #3-292216-0
MINI CT D/R RELAY 30P V NAT



TE Part #2299806-1
NRW NON-FABRIC CARRIER,
SOCKET P0

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

1-5316318-0

PCB Mount Receptacle, Vertical, Board-to-Board, 140 Position, .6 mm [.024 in]
Centerline, Gold, Surface Mount, Signal, Black, Tray, Free Height



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