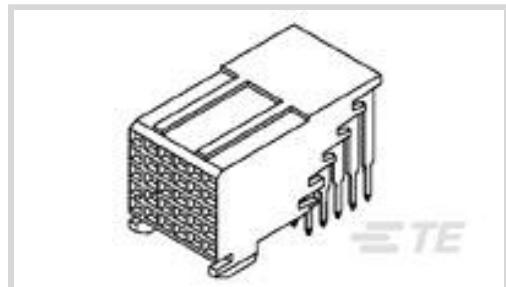


Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Right Angle**

Connector System: **Board-to-Board**

Number of Positions: **120**

Centerline (Pitch): **2 mm [.079 in]**

Features

Product Type Features

Series	Signal
PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Sequencing	No
Number of Rows	5
Stackable	No
Number of Signal Positions	120
PCB Mount Orientation	Right Angle
Number of Positions	120
Board-to-Board Configuration	Right Angle

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	1000 VAC
Insulation Resistance	5 MΩ
Operating Voltage	30 VAC
Impedance	120 Ω

Contact Features

Contact Layout	Matrix
PCB Contact Termination Area Plating Material Thickness	3.81 μm [149.9997 μin]
Contact Mating Area Plating Material Finish	Matte
Contact Configuration	Dual Beam
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.05 μm [1.9685 μin]
Contact Type	Socket
Contact Current Rating (Max)	3 A

Termination Features

Termination Post & Tail Length	2.73 mm[.107 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
PCB Mount Retention Type	Hold-Down Post
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	2 mm[.079 in]
Housing Color	Natural
Housing Material	LCP (Liquid Crystal Polymer)

Dimensions

Connector Height	13.3 mm[.52269 in]
PCB Thickness (Recommended)	1.3 mm[.05 in]

Usage Conditions

Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
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Operation/Application

Solder Process Feature	Board Standoff
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Circuit Application

Signal

Industry Standards

UL Flammability Rating

UL 94V-0

Packaging Features

Packaging Quantity

12

Packaging Method

Tube

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 2019
(197)Candidate List Declared Against: JAN 2019
(197)

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per
homogenous material. Also BFR/CFR/PVC
Free

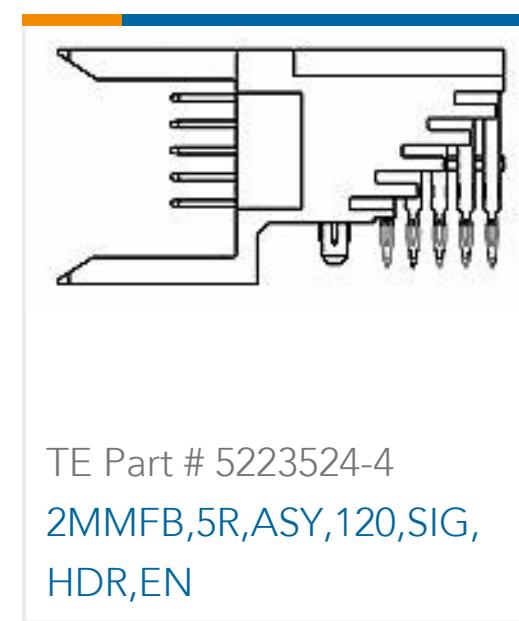
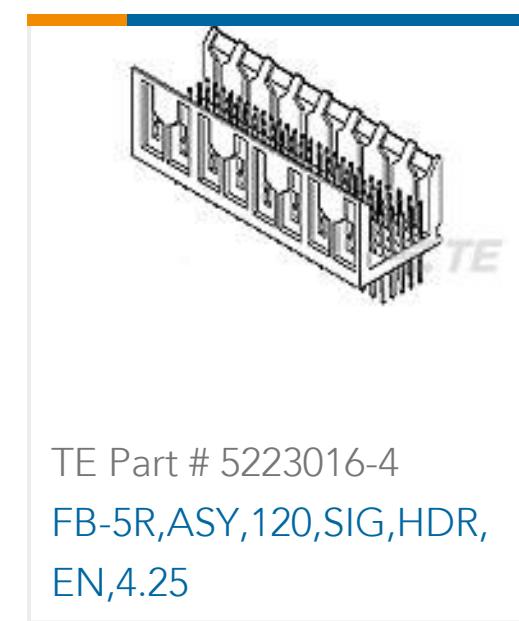
Solder Process Capability

Pin-in-Paste capable to 260°C

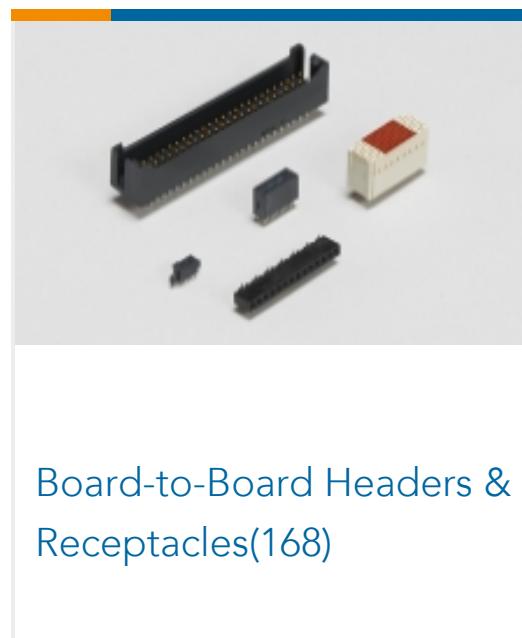
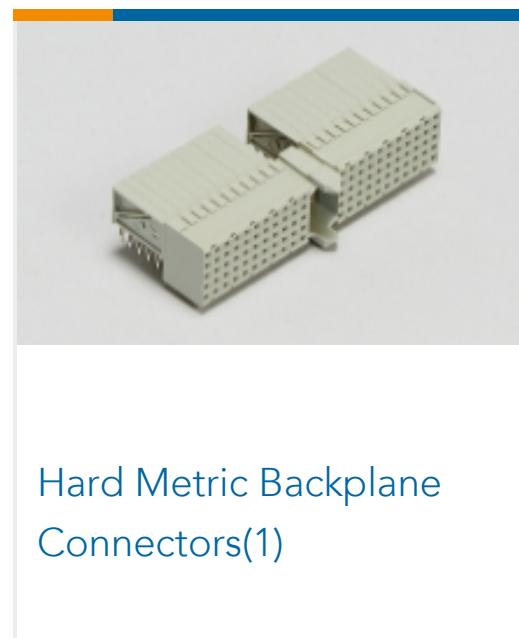
Product Compliance Disclaimer

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

TE Part # 5223011-4
FB-5R,ASY,120,SIG,HDR,
SL,4.25TE Part # 5223002-4
FB-5R,ASY,120,SIG,HDR,
EN,4.25TE Part # 5223524-4
2MMFB,5R,ASY,120,SIG,
HDR,ENTE Part # 5223016-4
FB-5R,ASY,120,SIG,HDR,
EN,4.25

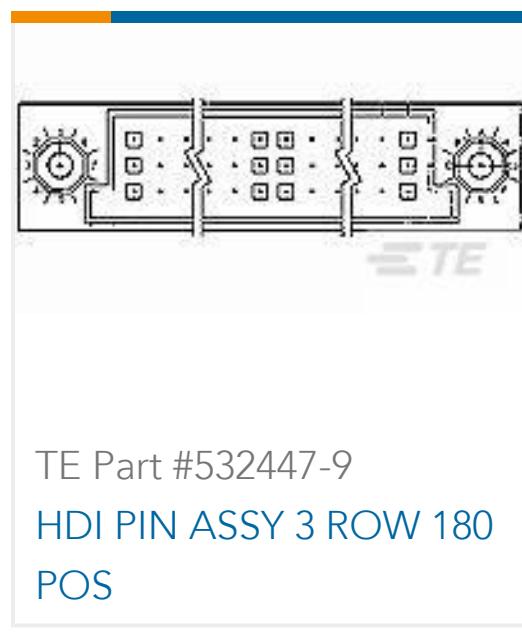
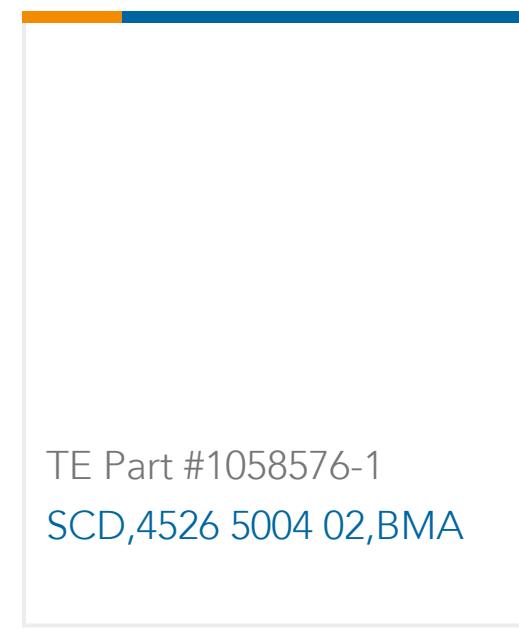
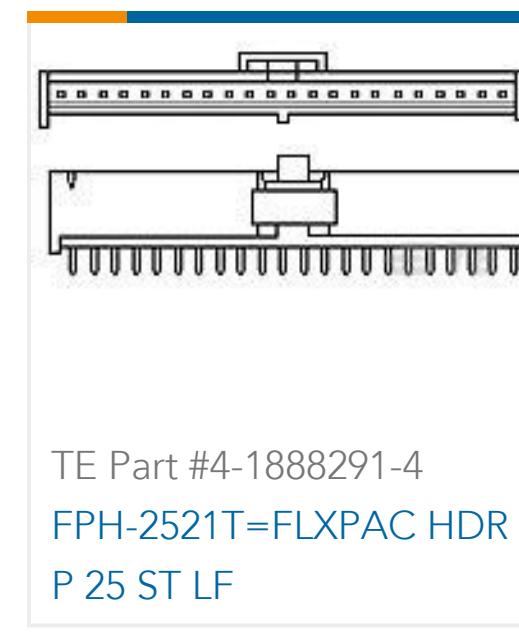
Also in the Series | Z-PACK Future Bus+

Board-to-Board Headers &
Receptacles(168)Hard Metric Backplane
Connectors(1)

PCB Connector Shrouds(9)

Rectangular Power
Connectors(35)

Customers Also Bought

TE Part #532447-9
HDI PIN ASSY 3 ROW 180
POSTE Part #2-211991-2
RECEPT ASSY,SZ 2,ARINC
600TE Part #1058576-1
SCD,4526 5004 02,BMATE Part #4-1888291-4
FPH-2521T=FLXPAC HDR
P 25 ST LFTE Part #448464-1
LGH 1/2,RCPT,MOD,W/3
/8-24 UNFTE Part #533935-6
HDI PIN ASSY 4 ROW 240
POSTE Part #867956-1
LGH 1/2 SGL END LEAD
POS STOPTE Part #9-1470209-3
RCPT,2MM,40P,VRT MT,
30AU,2.6STTE Part #4-1879537-3
CRGV2010 1% 1M5 3000V

Documents

Product Drawings

[FB-5R,ASY,120,SIG,REC,SL,2.73](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5223004-4_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5223004-4_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5223004-4_A.3d_stp.zip](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[TE Material Declaration](#)

English