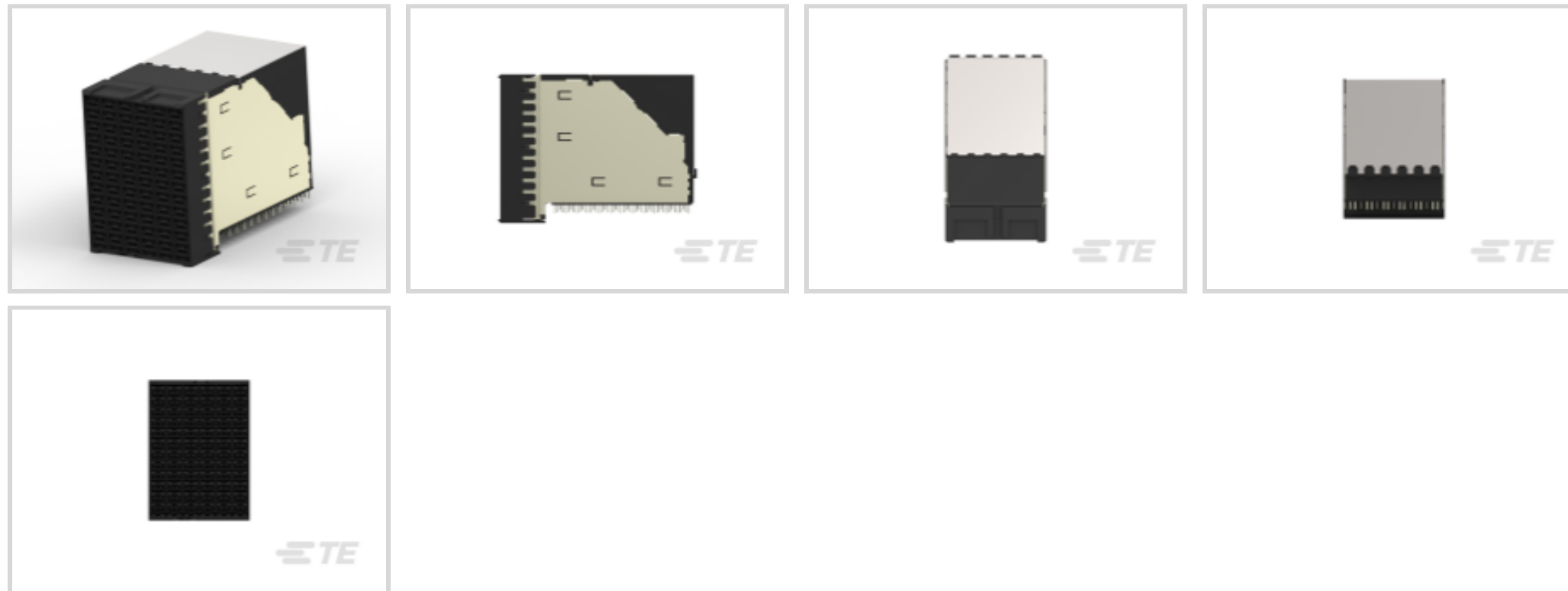




TE Internal #: 2187462-1  
 High Speed Backplane Connectors, Board-to-Board, 144 Position,  
 Mating Alignment, Polarization Mating Alignment Type, 12 Row, 6  
 Column

[View on TE.com >](#)

Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**  
 Number of Positions: **144**  
 Row-to-Row Spacing: **2.5 mm [ .098 in ]**  
 Mating Alignment: **With**  
 Mating Alignment Type: **Polarization**

### Features

#### Product Type Features

Backplane Module Type	Center
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

#### Configuration Features

Pairs per Column	12
Number of Pairs	72
Number of Signal Positions	144
Number of Positions	144
Number of Rows	12
Number of Columns	6
Backplane Architecture	Orthogonal
PCB Mount Orientation	Right Angle



Guide Location	Unguided
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### Electrical Characteristics

Impedance	100 $\Omega$
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### Contact Features

Contact Current Rating (Max)	.5 A
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### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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### Mechanical Attachment

PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount

### Housing Features

Number of Shrouded Sides	0
Housing Material	Thermoplastic
Housing Color	Black
Centerline (Pitch)	3.9 mm[.153 in]

### Dimensions

Connector Length	23.9 mm[.95 in]
Connector Height	34 mm[1.33 in]
Connector Width	43.79 mm[1.72 in]
Row-to-Row Spacing	2.5 mm[.098 in]

### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### Operation/Application

Circuit Application	Signal
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### Industry Standards

Agency/Standard	UL
UL Rating	Recognized
UL Flammability Rating	UL 94V-0



### Packaging Features

Packaging Method	Tube
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### 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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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	Not reviewed for solder process capability

#### 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

 <p>TE Part # 2187655-1 SW PIR HDR BP, 100OHM, 12X6 DEW</p>	 <p>TE Part # 3-2320907-6 C/A,12P6C 100 OHM PIR CBL STRADA WHISPER</p>	 <p>TE Part # 5-2320907-6 C/A,12P6C 100 OHM PIR CBL STRADA WHISPER</p>	 <p>TE Part # 6-2320907-6 C/A,12P6C 100 OHM PIR CBL STRADA WHISPER</p>
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### Customers Also Bought



TE Part #1-2132403-5  
SFP+ Stacked Cage Assemblies



TE Part #2199337-5  
ASS'Y FOR MICRO SIM H1.18 8POS  
(EMBOSS)



TE Part #2187658-1  
SW PIR RECT, 100OHM, 4X6



TE Part #9-1879214-2  
CPF 0402 3K32 0.1% 25PPM 1K RL



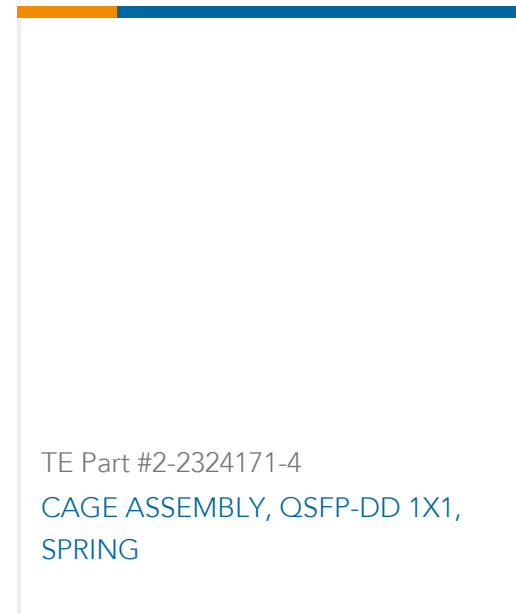
TE Part #1676335-2  
RN 0805 40K2 0.1% 10PPM 1KRL



TE Part #3-2176307-0  
RP 1E 0.1W 24K9 0.1% 25PPM 5K RL



TE Part #2318579-1  
RCPT CONN R/A SMT 76 POSN QSFP-  
DD



TE Part #2-2324171-4  
CAGE ASSEMBLY, QSFP-DD 1X1,  
SPRING

## Documents

### Product Drawings

[SW PIR RECT, 100OHM, 12X6](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2187462-1\\_7.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2187462-1\\_7.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2187462-1\\_7.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Environmental Compliance

[TE Material Declaration](#)

English