

1934331-1 ✓ ACTIVE

Z-PACK | Z-PACK TinMan

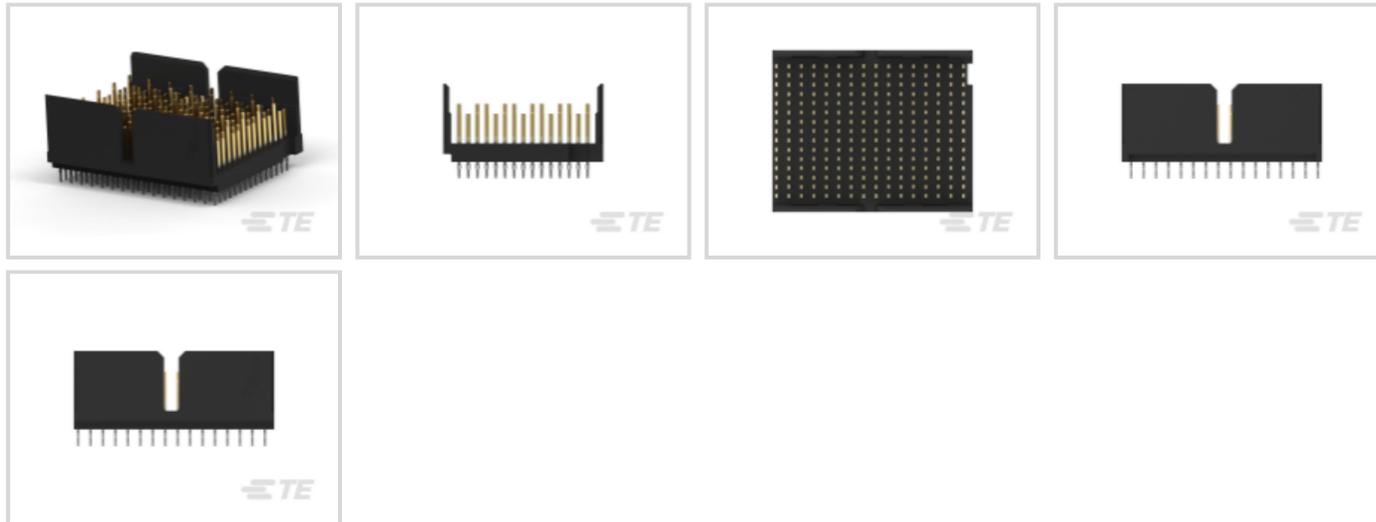
TE Internal #: 1934331-1

High Speed Backplane Connectors, Board-to-Board, 240 Position,
Mating Alignment, Guide Slot Mating Alignment Type, 15 Row, 16
Column, Z-PACK TinMan

[View on TE.com >](#)



Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **240**

Row-to-Row Spacing: **2.5 mm [.098 in]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Features

Product Type Features

Backplane Module Type	Center
Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Partially Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Pairs per Column	5
Number of Pairs	80
Stackable	No
Number of Signal Positions	160
Number of Positions	240
Number of Rows	15



Number of Columns	16
Backplane Architecture	Traditional Backplane
PCB Mount Orientation	Vertical

Electrical Characteristics

UL Voltage Rating	250 VAC
Impedance	100 Ω
Operating Voltage	250 VAC

Signal Characteristics

Differential Impedance	100 Ω
Number of Differential Pairs per Column	5
Data Rate	10 Gb/s

Contact Features

Contact Mating Area Length	6 mm[.236 in]
PCB Contact Termination Area Plating Material Thickness	.5 μm [20 μin]
Contact Type	Pin
Contact Mating Area Plating Material Thickness	.76 μm [29.92 μin]
Contact Mating Area Plating Material	Gold
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Rectangular Post
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	.5 A

Termination Features

Termination Post & Tail Length	2.5 mm[.098 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

Mating Retention	Without
PCB Mount Alignment	Without
Guide Hardware	Without
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With



Mating Alignment Type	Guide Slot
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Connector Mounting Type	Board Mount
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Housing Features

Number of Shrouded Sides	2
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End Wall Location	Open
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Housing Material	LCP (Liquid Crystal Polymer)
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Housing Color	Black
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Centerline (Pitch)	1.9 mm[.075 in]
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Dimensions

Connector Length	15.35 mm
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Connector Height	11.8 mm
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Connector Width	24.4 mm
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PCB Hole Diameter	.47 mm
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Row-to-Row Spacing	2.5 mm[.098 in]
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Usage Conditions

Operating Temperature Range	-65 – 90 °C[-85 – 194 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

UL Rating	Recognized
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UL File Number	E28476
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Agency/Standard	UL
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UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Box & Tube, Tube
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	
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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 applicable 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



TE Part # 1934221-1
Tin Man Recept Assy 5 Pair 16 Column



TE Part # 1976930-1
INS TOOL, TIN MAN, 4.5

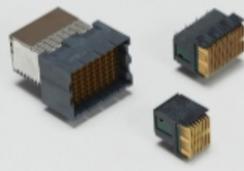


TE Part # 1976935-1
EXT TOOL. IND CONTACTS, T.M.



TE Part # 2065634-1
Tin Man Recept Assy 5 Pair 16 Column

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)



Insertion & Extraction Tools(2)

Documents

Product Drawings
 Tin man Header Assy 5x16 Open



English

CAD Files

Customer View Model

[ENG_CVM_1934331-1_B.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_1934331-1_B.2d_dxf.zip](#)

English

3D PDF

English

Customer View Model

[ENG_CVM_1934331-1_B.3d_igs.zip](#)

English

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

Datasheets & Catalog Pages

[High Speed Backplane Connectors catalog - Z-PACK TinMan High Speed, High Density Backplane Connector](#)

English

[Z-PACK TinMan High Speed High Density Backplane Connector Catalog 5-1773447-9](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_1934331-1_052220181351_dmtec](#)

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English
