

1934224-1 ✓ ACTIVE

Z-PACK | Z-PACK TinMan

TE Internal #: 1934224-1

High Speed Backplane Connectors, 120 Position, Mating Alignment, Guide Slot Mating Alignment Type, 12 Row, 10 Column, Z-PACK TinMan

[View on TE.com >](#)



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



Number of Positions: **120**

Row-to-Row Spacing: **1.4 mm [.055 in]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Number of Rows: **12**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Signal Arrangement | Differential |
| Connector System | Board-to-Board |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type | PCB Mount Receptacle |
| Shroud Style | Unshrouded |

Configuration Features

| | |
|----------------------------|-----------------------|
| Pairs per Column | 4 |
| Number of Pairs | 40 |
| Stackable | No |
| Number of Signal Positions | 80 |
| Backplane Architecture | Traditional Backplane |
| Number of Positions | 120 |
| Number of Rows | 12 |
| Number of Columns | 10 |
| PCB Mount Orientation | Right Angle |

Electrical Characteristics

| | |
|-------------------|--------------|
| Impedance | 100 Ω |
| Operating Voltage | 250 VAC |



Signal Characteristics

| | |
|---|--------------|
| Differential Impedance | 100 Ω |
| Number of Differential Pairs per Column | 4 |
| Data Rate | 10 Gb/s |

Body Features

| | |
|-----------------------|-----------------|
| Shield Material | Phosphor Bronze |
| Primary Product Color | Black |

Contact Features

| | |
|---|---------------------------------------|
| PCB Contact Termination Area Plating Material Thickness | .5 μm [20 μin] |
| Contact Type | Receptacle |
| Contact Mating Area Plating Material | Gold |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Shape & Form | Dual Beam |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Phosphor Bronze |
| Contact Current Rating (Max) | .5 A |

Termination Features

| | |
|---|--------------------------|
| Termination Post & Tail Length | 2.2 mm[.087 in] |
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |

Mechanical Attachment

| | |
|--------------------------|-----------------------|
| Guide Hardware | Without |
| Mating Retention | Without |
| PCB Mount Alignment | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Action/Compliant Tail |
| Mating Alignment | With |
| Mating Alignment Type | Guide Slot |
| Connector Mounting Type | Board Mount |

Housing Features

| | |
|--------------------------|------------------------------|
| Number of Shrouded Sides | 0 |
| End Wall Location | None |
| Housing Material | LCP (Liquid Crystal Polymer) |



| | |
|--------------------|-----------------|
| Centerline (Pitch) | 1.9 mm[.075 in] |
|--------------------|-----------------|

Dimensions

| | |
|-----------------------------|------------------|
| Connector Length | 19.15 mm |
| Connector Height | 20.2 mm |
| Connector Width | 21.61 mm |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
| PCB Hole Diameter | .47 mm |
| Row-to-Row Spacing | 1.4 mm[.055 in] |

Usage Conditions

| | |
|-----------------------------|---------------------------|
| Operating Temperature Range | -65 - 90 °C[-85 - 194 °F] |
|-----------------------------|---------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

| | |
|---|-----------|
| Compatible With Agency/Standards Products | UL |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

Packaging Features

| | |
|------------------|------------------|
| Packaging Method | Box & Tube, 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 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 |

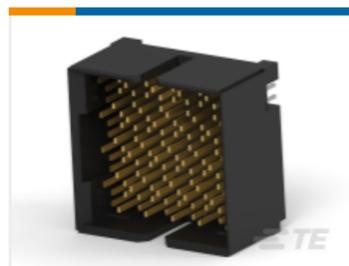
Product Compliance Disclaimer

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>

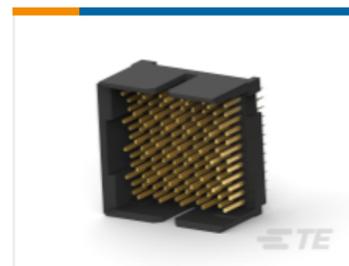
Compatible Parts



TE Part # 1934311-1
Tin Man Header Assy4x10Open



TE Part # 1934312-1
TinMan Header Assy 4x10Double



TE Part # 1934314-1
Tin Man Assy4x10Right



TE Part # 1934313-1
Tin Man Header Assy 4x10left

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)

Customers Also Bought



TE Part # 206434-1
CPC PLUG ASSEMBLY SIZE 11-8



TE Part # 1-2199230-6
M.2 0.5PITCH 4.2H KEY M 30U AU



TE Part # 66506-3
20 DF PIN



TE Part # 770985-1
MINI UMNL PIN 26-22AWG SN LP



Documents

Product Drawings

[Tin Man Recept Assy 4 pair10 Column](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1934224-1_B.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1934224-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1934224-1_B.3d_stp.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

Product Specifications

[Application Specification](#)

English