

1934224-1 ✓ ACTIVE

Z-PACK | Z-PACK TinMan

TE Internal #: 1934224-1

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

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Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **120**

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

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Signal Arrangement | Differential |
| Connector System | Board-to-Board |
| PCB Connector Assembly Type | PCB Mount Receptacle |
| Shroud Style | Unshrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

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

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 | 4 |
|---|---|

| | |
|-----------|---------|
| Data Rate | 10 Gb/s |
|-----------|---------|

Body Features

| | |
|-----------------|-----------------|
| Shield Material | Phosphor Bronze |
|-----------------|-----------------|

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

| | |
|------------------|---------|
| 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 |
|-----------------------|------------|

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

| | |
|--------------------------|---|
| Number of Shrouded Sides | 0 |
|--------------------------|---|

| | |
|-------------------|------|
| End Wall Location | None |
|-------------------|------|



| | |
|--------------------|------------------------------|
| Housing Material | LCP (Liquid Crystal Polymer) |
| Housing Color | Black |
| 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

| | |
|------------------------|------------|
| UL File Number | E28476 |
| Agency/Standard | UL |
| UL Rating | Recognized |
| 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: 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

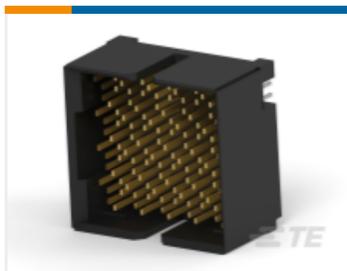
Product Compliance Disclaimer

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 # 1934311-1
Tin Man Header Assy 4x10Open



TE Part # 1934312-1
TinMan Header Assy 4x10Double

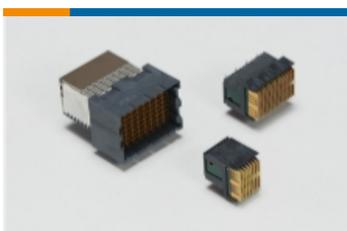


TE Part # 1934314-1
Tin Man Assy 4x10Right



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

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)



Insertion & Extraction Tools(2)

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