



# HIGH SPEED CONNECTORS



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

## Tin Man Recept Assy 5 Pair 16 Column

Z-PACK | TinMan

1934221-1

TE Internal Number: 1934221-1

Always EU RoHS/ELV Compliant

Number of Positions **240**

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

Contact Current Rating (A) **.5**

Mating Alignment **With**

Mating Alignment Type **Guide Slot**

### Product Drawings

#### RECEPTACLE ASSEMBLY, 5 PAIR, 16 COLUMN

PDF  
English

### CAD Files

#### Customer View Model

2D\_DXF.ZIP  
English

#### 3D PDF

PDF  
3D

#### Customer View Model

3D\_IGS.ZIP  
English

#### Customer View Model

3D\_STP.ZIP  
English

### Catalog Pages/Data Sheets

#### High Speed Backplane Connectors Catalog - Z-PACK TinMan High Speed, High Density Backplane Connector

PDF  
English

#### Solutions For AdvancedTCA, AdvancedTCA 300, MicroTCA, And AdvancedMC Standards Datasheet 3-1773445-8

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#### Z-PACK TinMan High Speed High Density Backplane Connector Catalog 5-1773447-9

PDF  
English

### Product Specifications

#### Product Specification

#### Z-PACK TinMan Connector System

PDF  
English

#### Application Specification

#### Z-PACK TinMan Connector System

PDF  
English

## Product Environmental Compliance

TE Material Declaration

[MD\\_1934221-1\\_10212014716\\_dmtec](#)

PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

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Product Type Features	Row-to-Row Spacing	<b>1.4 mm [ .055 in ]</b>
	Connector System	<b>Board-to-Board</b>
	Connector Style	<b>Receptacle</b>
	Board-to-Board Configuration	<b>Co-Planar, Right Angle</b>
	PCB Mounting Orientation	<b>Right Angle</b>
	Shrouded	<b>No</b>
	Product Type	<b>Connector</b>
	Applies To	<b>Printed Circuit Board</b>
	Connector Type	<b>Connector Assembly</b>
	Sealed	<b>No</b>

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Configuration Features	Number of Positions	<b>240</b>
	Number of Rows	<b>15</b>
	Number of Columns	<b>16</b>
	Number of Pairs	<b>80</b>
	Number of Signal Positions	<b>160</b>
	Pairs per Column	<b>5</b>
	Stackable	<b>No</b>

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Electrical Characteristics	Operating Voltage (VAC)	<b>250</b>
	UL Voltage Rating (VAC)	<b>250</b>

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Signal Characteristics	Differential Impedance ( $\Omega$ )	<b>100</b>
	Differential Pairs per Column	<b>5</b>
	Differential Signaling	<b>Yes</b>
	Data Rate (Gb/s)	<b>10</b>

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Body Features	Shield Material	<b>Phosphor Bronze</b>
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Contact Features	Contact Current Rating (A)	<b>.5</b>
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Contact Style	<b>Press-Fit</b>
Contact Base Material	<b>Phosphor Bronze</b>
Contact Termination Area Plating Thickness	<b>.5 µm [ 20 µin ]</b>
Contact Design	<b>Dual Beam</b>
Contact Mating Area Plating Material	<b>Gold</b>
Contact Type	<b>Socket</b>
Contact Termination Area Plating Material Finish	<b>Matte</b>
Contact Termination Area Plating Material	<b>Tin</b>
Contact Transmits (Typical)	<b>Signal (Data)</b>

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Termination Features	Termination Method to PC Board	<b>Through Hole - Press-Fit</b>
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Mechanical Attachment	Mating Alignment	<b>With</b>
	Mating Alignment Type	<b>Guide Slot</b>
	PCB Mount Retention Type	<b>Action/Compliant Tail</b>
	PCB Mount Alignment	<b>Without</b>
	PCB Mount Retention	<b>With</b>
	Guide Hardware	<b>Without</b>
	Mating Retention	<b>Without</b>

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Housing Features	Centerline	<b>1.9 mm [ .075 in ]</b>
	Housing Color	<b>Black</b>
	End Wall Location	<b>None</b>
	Housing Material	<b>LCP (Liquid Crystal Polymer)</b>

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Dimensions	PCB Thickness (Recommended)	<b>1.57 mm [ .062 in ]</b>
	PCB Hole Diameter (mm)	<b>.47</b>
	Height (mm)	<b>24.4</b>
	Length (mm)	<b>30.55</b>
	Width (mm)	<b>31.81</b>
	Tail Length	<b>2.2 mm [ .087 in ]</b>

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Usage Conditions	Operating Temperature Range	<b>-65 – 90 °C [ -85 – 194 °F ]</b>
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Operation/Application	For Use With	<b>Header Assembly</b>
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Industry Standards	Agency/Standard	<b>UL</b>
	UL Rating	<b>Recognized</b>
	UL File Number	<b>E28476</b>
	UL Flammability Rating	<b>UL 94V-0</b>
Packaging Features	Packaging Method	<b>Tube, Tube/Box</b>
Product Compliance	<a href="#">Statement of Compliance</a> PDF <a href="#">VIEW ALL PRODUCT COMPLIANCE</a>	

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RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

<b>PRODUCT - MATING PRODUCTS</b>		<input checked="" type="checkbox"/>
	Connectors - High Speed Connectors Z-PACK   TinMan <b>TinMan R/A Header Assy</b> <b>5x16 Open - 1934347-1</b> <small>TE INTERNAL NUMBER: 1934347-1</small> <a href="#">Active</a>	<b>Always EU RoHS/ELV Compliant</b> Number of Positions <b>240</b> Row-to-Row Spacing <b>1.4 mm</b> Contact Current Rating <b>.5 A</b> Mating Alignment <b>With</b> Mating Alignment Type <b>Guide Slot</b>

RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - High Speed Connectors  
Z-PACK | TinMan

### Tin Man Header Assy 5X16 left - 1934333-1

TE INTERNAL NUMBER: 1934333-1

✓ Active

Always EU RoHS/ELV Compliant

Number of Positions **240**

Row-to-Row Spacing **2.5 mm**

Contact Current Rating **.5 A**

Mating Alignment **With**

Mating Alignment Type **Guide  
Slot**



RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - High Speed Connectors  
Z-PACK | TinMan

### Tin man Header Assy 5x16 Open - 1934331-1

TE INTERNAL NUMBER: 1934331-1

✓ Active

Always EU RoHS/ELV Compliant

Number of Positions **240**

Row-to-Row Spacing **2.5 mm**

Contact Current Rating **.5 A**

Mating Alignment **With**

Mating Alignment Type **Guide  
Slot**

