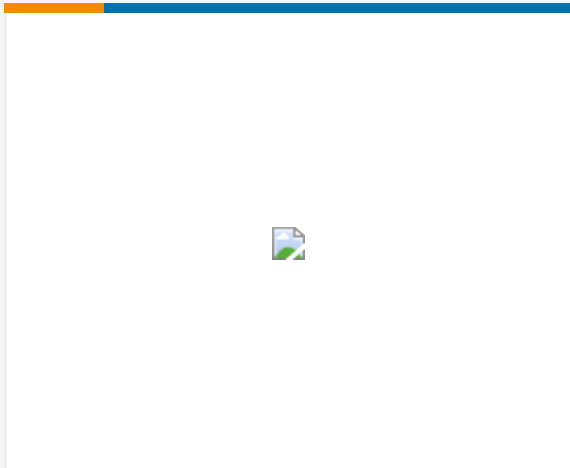




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[Connectors](#) > [PCB Connectors](#) > [Backplane Connectors](#) > [High Speed Connectors](#)



PRELIMINARY

SW PIR HDR BP, 100OHM, 12X6 DEW

STRADA Whisper 3.9mm

TE Part # **2187544-1**

TE Internal #: **2187544-1**

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

Number of Positions : **144**

[+ More](#)

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DOCUMENTS —

FEATURES +

Please review product documents or [contact us](#) for the latest agency approval information.

Please Note: Use the Product Drawing for all design activity.

Product Type Features

Connector System : **Board-to-Board**
Row-to-Row Spacing : **2.5 mm [.098 in]**
Connector Style : **Header**
Shrouded : **Fully Shrouded**
Sealable : **No**
Connector & Contact Terminates To : **Printed Circuit Board**
Connector Type : **Header**
Post Type : **Press-Fit**
Module Type : **Center**
Product Type : **Connector**

Configuration Features

Number of Positions : **144**
Number of Rows : **12**
Number of Columns : **6**
Board-to-Board Configuration : **Right Angle**
PCB Mount Orientation : **Vertical**
Number of Signal Positions : **144**
Number of Ground Positions : **78**
Pairs per Column : **12**

Electrical Characteristics

Impedance (Ω): **100**
Operating Voltage (VAC): **80**

Signal Characteristics

Differential Pairs per Column : **8**
Differential Signaling : **Yes**
Speed (Gb/s): **56**
Data Rate (Gb/s): **56**
Differential Impedance (Ω): **100**

Body Features

Shield Material : **Copper Alloy**

Contact Features

Contact Base Material : **Copper Alloy**

Contact Current Rating (Max) (A): **.4**

Contact Termination Area Plating Material : **Tin**

Contact Design : **Dual Beam**

Contact Style : **Press-Fit**

Contact Transmits (Typical) : **Signal (Data)**

Contact Type : **Pin**

Termination Features

Termination Method to PC Board : **Through Hole - Press-Fit**

Interface Type : **3.9mm Whisper**

Mechanical Attachment

PCB Mount Retention Type : **Action/Compliant Tail**

Guide Hardware : **No**

Mating Alignment : **With**

Mating Alignment Type : **Keyed**

Mating Retention : **Without**

Housing Features

Centerline (Pitch) : **3.9 mm [.154 in]**

Housing Color : **Black**

Housing Material : **LCP (Liquid Crystal Polymer)**

Usage Conditions

Operating Temperature Range : **-55 – 105 °C [-67 – 221 °F]**

Operation/Application

Circuit Application : **Signal**

Durability Rating (Cycles): **200**

For Use With : **Receptacle Assembly**

Industry Standards

Agency/Standard : **UL**

UL File Number : **E28476**

UL Flammability Rating : **UL 94V-0**


Packaging Features

Packaging Method : **Tube**

PRODUCT COMPLIANCE



Compatible Parts



TE Part # 2187660-1
**PIR RECT, 100OHM,
12X6,**

[View Product](#)

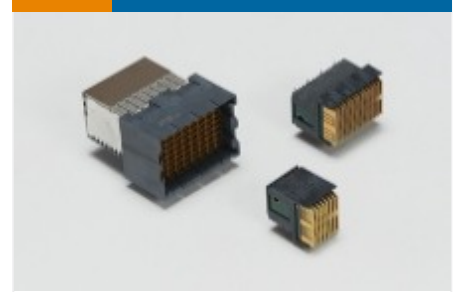
Also in the Series | STRADA Whisper 3.9mm



Board-to-Board Headers & Receptacles (1)



High Speed Backplane Cable Assemblies (15)



High Speed Backplane Connectors (34)