



**CONNECTORS**

**BOARD-TO-BOARD HEADERS & RECEPTACLES**



✓ Active

TE CONNECTIVITY (TE)

# 1FHP,64,50A/P,S,N,S10,12,13,15

1.0mm FH | 1mm FH

1-120527-1

TE Internal Number: 1-120527-1

Not EU RoHS Compliant

Not Yet Reviewed for EU ELV

**Connector Style** Plug

**Connector System** Board-to-Board

**Number of Positions** 64

**Centerline (Pitch)** 1 mm [ .039 in ]

**Stack Height (mm)** 10, 12, 13, 15

**Stack Height (in)** .591

 **PRODUCT DRAWING**  
English

 **3D PDF**

## DOCUMENTATION

Product Drawings

### **PLUG ASSY, 1.0mm FH(IEEE 1386) CONNECTOR**

PDF

**English**

CAD Files

### **3D PDF**

PDF

**English**

### **Customer View Model**

2D\_DXF.ZIP

English

### Customer View Model

3D\_IGS.ZIP

English

### Customer View Model

3D\_STP.ZIP

English

---

Product Specifications

Product Specification

### 1.0 Mm Mezzanine Connectors

PDF

English

---

## 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 Style** Plug

**Connector System** Board-to-Board

**Connector & Contact Terminates To** Printed Circuit Board

**Row-to-Row Spacing (mm)** 1

**Series** 1mm FH

**PCB Mounting Orientation** Vertical

**Connector Type** Connector Assembly

**Boss** With

**Product Type** Connector

---

Configuration Features

**Stackable** Yes

**Number of Columns** 32

**Number of Positions** 64

**Board-to-Board Configuration** Mezzanine

**Number of Rows** 2

**Solder Tail Orientation** Inline

---

Electrical Characteristics

**Voltage (VAC)** 250

---

Signal Characteristics

**Differential Signaling** Yes

---

Contact Features

**Solder Tail Contact Plating Material** Tin-Lead  
**Contact Configuration** Single Beam  
**Solder Tail Contact Plating Material Finish** Matte  
**Underplate Material** Nickel  
**Contact Plating Material** Gold Flash, Nickel, Tin-Lead  
**Contact Plating Thickness** .025 – .076, .127 – .254, 2  
**Contact Mating Area Plating Material** Gold  
**Contact Mating Area Plating Thickness** 1.27 µm [ 50 µin ]  
**Contact Current Rating (Max) (A)** 1  
**Tin to Lead Ratio** 93 / 7  
**Solder Tail Contact Plating Thickness** 3.81 µm [ 150 µin ]  
**Contact Termination Area Plating Thickness** 3.81 µm [ 150 µin ]  
**Contact Layout** Inline  
**Underplate Material Thickness** 1.27 µm [ 50 µin ]  
**Contact Base Material** Phosphor Bronze  
**Contact Transmits (Typical)** Signal (Data)  
**Contact Type** Pin  
**Contact Termination Area Plating Material** Tin-Lead

---

#### Termination Features

**Termination Method to PC Board** Surface Mount

---

#### Mechanical Attachment

**Mating Alignment** Without  
**Mating Alignment Type** None  
**PCB Mount Retention** Without  
**PCB Mount Retention Type** None  
**PCB Mount Alignment** With  
**PCB Mount Alignment Type** Locating Posts  
**Mating Retention** Without

---

#### Housing Features

**Centerline (Pitch)** 1 mm [ .039 in ]  
**Housing Entry Style** Top  
**Housing Material** LCP (Liquid Crystal Polymer)  
**Housing Color** Black

---

#### Dimensions

**Stack Height (mm)** 10, 12, 13, 15  
**Stack Height (in)** .591  
**Height** 8.35 mm [ .328 in ]  
**Tail Length** 2.05 mm [ .081 in ]  
**Length** 34.22 mm [ 1.347 in ]  
**Width** 6.04 mm [ .238 in ]

---

#### Usage Conditions

**Operating Temperature Range** -55 – 110 °C [ -67 – 230 °F ]

---

#### Operation/Application

**Assembly Process Feature** None  
**Pick and Place Cover** Without

---

## Industry Standards

**CSA Certified** Yes

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

**UL Rating** Listed

**Agency/Standard** CSA, UL

**Industry Standard** IEEE 1386 Mezzanine Connector

**CSA File Number** LR7189

**UL File Number** E28476

---

## Packaging Features

**Packaging Method** Tape & Reel

**Packaging Quantity** 400

---

## PRODUCT COMPLIANCE



Statement of Compliance

**Statement of Compliance**

PDF

---