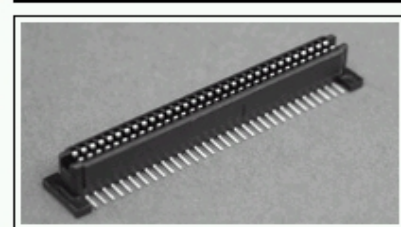




1-120521-1 Product Details

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1-120521-1

TE Internal Number: 1-120521-1
✔ Active

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1 mm Free Height (IEEE 1386)

✔ 5 of 6 EU RoHS/ELV Compliant (Find RoHS Compliant Alternates/Statement of Compliance)

Product Highlights:

- Connector Style = Receptacle
- 64 Positions
- Stack Height = 8.00 mm, 9.00 mm, 10.00 mm
- With PCB Mount Retention
- With PCB Mount Alignment

[View all Features](#)

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Documentation & Additional Information

Product Drawings:

- [RECEPTACLE ASSY, 1.0mm FH\(IEEE1386\) CONNECTOR \(PDF, English\)](#)

Catalog Pages/Data Sheets:

- None Available

Product Specifications:

- [1.0 mm Mezzanine Connectors \(PDF, English\)](#)

Application Specifications:

- [1.0 mm Free Height \(FH\) Plug and Receptacle Connecto... \(PDF, English\)](#)

Instruction Sheets:

- None Available

CAD Files: (CAD Format & Compression Information)

- [2D Drawing \(DXF, Version H\)](#)
- [3D Model \(IGES, Version H\)](#)
- [3D Model \(STEP, Version H\)](#)

Additional Product Images:

- [Product Photo](#)

Related Products:

- [Tooling](#)
- [Mating Products \(17\)](#)

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- PCB Mount Retention = With
- PCB Mount Alignment = With
- Product Type = Connector
- Connector Type = Connector Assembly
- Product Line = 1mm FH
- UL File Number = E28476
- CSA File Number = LR7189
- Termination Method to PC Board = Surface Mount
- PCB Mounting Orientation = Vertical
- PCB Mount Alignment Type = Locating Posts

Electrical Characteristics:

- Contact - Rated Current (A) = 0.8
- Operating Voltage Reference = AC/DC
- Operating Voltage (VAC) = 250
- Operating Voltage (VDC) = 250

Termination Features:

- Tail Length (mm [in]) = 2.05 [0.081]
- Tail Orientation = In-line

Dimensions:

- Length (X-Axis) (mm [in]) = 34.22 [1.347]
- Width (Z-Axis) (mm [in]) = 6.04 [0.238]
- Profile Height (Y-Axis) (mm [in]) = 5.37 [0.211]

Body Features:

- Number of Positions = 64
- Underplate Material Thickness (µm [µin]) = 1.27 [50.000]
- Number of Rows = 2
- PCB Mount Retention Type = Locating Posts
- Mating Retention = Without

Contact Features:

- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold
- Contact Plating, Mating Area, Thickness (µm [µin]) = 1.27 [50]
- Contact Plating, Termination Area, Material = Tin-Lead
- Contact Plating, Termination Area, Thickness (µm [µin]) = 3.81 [150]
- Underplate Material = Nickel
- Contact Design = Single Beam
- Pitch (mm [in]) = 16.00 [0.630]
- Tin to Lead Ratio = 93 / 7

Housing Features:

- Connector Style = Receptacle
- Centerline (mm [in]) = 1.00 [0.039]
- UL Flammability Rating = UL 94V-0
- Housing Color = Black
- Mating Alignment = Without
- Housing Material = Thermoplastic

Configuration Features:

- Stack Height (mm [in]) = 8.00 [0.315], 9.00 [0.354], 10.00 [0.394]
- Number of Columns = 32
- Differential Signaling = Yes

Industry Standards:

- RoHS/ELV Compliance = ELV compliant, 5 of 6 Compliant
- Lead Free Solder Processes = Reflow solder capable to 245°C, Reflow solder capable to 260°C
- Industry Standard = IEEE 1386 Mezzanine Connector
- Agency/Standard = CSA, UL
- UL Rating = Listed
- CSA Certified = Yes

Environmental:

- Operating Temperature (°C [°F]) = -55 - +110 [-67 - +230]

Conditions for Usage:

- Applies To = Printed Circuit Board
- Board-to-Board Configuration = Mezzanine

Operation/Application:

- Pick and Place Cover = Without
- Application Use = Board-to-Board
- Contact Transmits (Typical Application) = Signal (Data)

Packaging Features:

- Packaging Method = Tape & Reel

Other:

- Brand = AMP

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