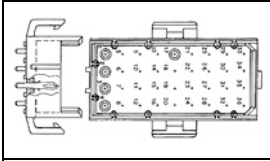


## 640501-1 Product Details



**640501-1**

TE Internal Number: 640501-1



[Active](#)

 [View 3D PDF](#)

**.165" Centerline, 250 V, 9 A max.**

 [Always EU RoHS/ELV Compliant \(Statement of Compliance\)](#)

**Product Highlights:**

- Wire-to-Board
- Connector
- Header
- Connector Style = Receptacle
- Applies To Printed Circuit Board

[View all Features](#)

### Documentation & Additional Information

**Product Drawings:**

- [HEADER ASSEMBLY, PIN, 9 POSITION MR.](#) (PDF, English)

**Catalog Pages/Data Sheets:**

- [SOFT SHELL PIN AND SOCKET CONNECTORS CATALOG](#) (PDF, English)

**Product Specifications:**

- [Header, MR, Miniature Rectangular](#) (PDF, English)

**Application Specifications:**

- None Available

**Instruction Sheets:**

- None Available

**CAD Files:** ([CAD Format & Compression Information](#))

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

[List all Documents](#)

**Additional Information:**

- [Product Line Information](#)

**Related Products:**

- [Tooling](#)
- [Mating Products \(1\)](#)

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

**Product Type Features:**

- Product Type = Connector
- Connector Type = Header
- PCB Mount Retention = Without
- Termination Method to PC Board = Through Hole - Solder
- PCB Mounting Orientation = Vertical
- PCB Mount Alignment = Without
- Shrouded = Yes
- Sealed = No
- Shape = Rectangular
- UL File Number = E28476
- CSA File Number = LR 7189

**Mechanical Attachment:**

- Mating Retention Type = Positive Lock

**Electrical Characteristics:**

- Contact Current Rating (A) = 9
- Hot Pluggable = No
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 250

**Termination Related Features:**

- Tail Length (mm [in]) = 3.81 [0.149]
- Tail Orientation = In-line

**Contact Related Features:**

- Contact Type = Pin
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Pre-Tin
- Contact Plating, Mating Area, Thickness ( $\mu\text{m}$  [ $\mu\text{in}$ ]) = 0.4 [15.75]
- Tail Plating Material = Tin
- Tail Plating, Thickness ( $\mu\text{m}$  [ $\mu\text{in}$ ]) = 2 [78.74]
- Contact Design = Formed Pin

**Housing Related Features:**

- Connector Style = Receptacle
- Housing Color = Brick Red
- Mating Alignment = With
- Housing Material = Nylon
- Mating Alignment Type = Polarization
- UL Flammability Rating = UL 94V-0

**Industry Standards:**

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C
- UL Voltage Rating (VAC) = 250
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency\Standard = UL, CSA

**Body Related Features:**

- Number of Positions = 9
- Number of Rows = 3
- Number of Columns = 3
- Selectively Loaded = No
- Mating Retention = With
- Length (X-Axis) (mm [in]) = 15.75 [0.620]
- Width (Z-Axis) (mm [in]) = 19.94 [0.785]
- Profile Height (Y-Axis) (mm [in]) = 13.46 [0.530]
- Header Type = Shrouded
- Centerline (mm [in]) = 4.19 [0.1649]
- Row-to-Row Spacing (mm [in]) = 4.19 [0.1649]

- UL Rating = Recognized

**Conditions for Usage:**

- Applies To = Printed Circuit Board
- PCB Thickness, Recommended (mm [in]) = 1.78 [0.069]
- Operating Temperature (°C [°F]) = -55 - +105 [-67 - +221]

**Operation/Application:**

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

**Packaging Related Features:**

- Packaging Method = Bag

**Other:**

- Brand = AMP