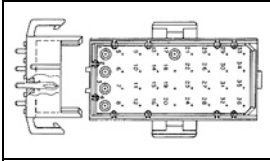


640502-1 Product Details



640502-1

TE Internal Number: 640502-1



[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, 12 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 S)
- [3D Model](#) (IGES, Version S)
- [3D Model](#) (STEP, Version S)

[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]

Contact Related Features:

- Contact Type = Pin
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Pre-Tin
- Contact Plating, Mating Area, Thickness (μm [μin]) = 0.4 [15.75]
- Tail Plating Material = Tin
- Tail Plating, Thickness (μm [μin]) = 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
- UL Voltage Rating (VAC) = 250
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency\Standard = UL, CSA

- Tail Orientation = In-line

Body Related Features:

- Number of Positions = 12
- Number of Rows = 4
- Number of Columns = 3
- Selectively Loaded = No
- Mating Retention = With
- Length (X-Axis) (mm [in]) = 19.94 [0.785]
- 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