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Datasheet

RS Pro Panel Mount Solder D-sub Connector Socket, 9 Way, 500 V ac, 5A RS

Stock No: 544-3749

Product Details

RS Pro panel mount solder D-sub connector socket with 9 copper alloy contacts, has a voltage rating of 500 V ac and current rating of 5 A. This connector is suitable for military, industrial or commercial applications and computer interfacing etc.

Features and Benefits

- Connectors come with stamped and formed contact
- Tinned and dimpled plug/shells offer good grounding and continuity
- Tinned solder bucket terminations
- Good EMI/RFI protection
- Straight plug and socket
- High performance commercial D type connectors

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Specifications:

- Body Orientation: Straight
- Contact Material: Phosphor Bronze
- Contact Plating: Gold
- Current Rating: 5 A
- Depth: 12.55 mm
- Dimensions: 30.81 x 10.85 x 12.55 mm
- Gender: Female
- Housing Material: Steel
- Length: 30.81 mm
- Maximum Operating Temperature: +105°C
- Minimum Operating Temperature: -55°C
- Mounting Type: Panel Mount
- Number of Contacts: 9
- Pitch: 2.77 mm
- Voltage Rating: 500 V ac
- Width: 10.85 mm
- Contact Resistance: 15 mΩ Maximum
- Insulation Resistance: 10^6 MΩ

Manufacturing advantages of stamped & formed contacts

While screw machined contacts are manufactured by turning and machining round bar stock of metal, stamped and formed contacts are created using flat coils of copper alloy stock that has been fabricated to a specific conductivity, strength and temper.

In a progressive stamping die, the contact profile is stamped from the flat stock and then formed into the desired final geometry. In many cases the contact exiting the die is a completely formed contact, without secondary bending operations required. This results in excellent true-position of the pcb solder or press-fit tails which allows easier assembly to the circuit board. This process also enables highly consistent manufacturing repeatability as well as greater efficiencies in use of base metal and precious metal plating.

Material handling for subsequent assembly processes is greatly improved as contacts are handled on strip to the point of installation into the housing. In comparison, bulk packaged machined contacts are typically handled individually and often manually. The stamped and formed manufacturing advantages lead to higher manufacturing consistency, higher quality PPM yields and the ability to realize lower manufacturing costs as volumes increase.