Plug-in Screw Connector System for Printed Circuit Boards

931-SLS | 3.50 mm (0.138 in) Spacing - 2-16 poles

PICTURES

931-SLS

938-FL-DS & 931-SLS

930-FL-DS & 931-SLS

TECHNICAL INFORMATION

Description
Pinstrip

Technical Data
Center to Center Spacing: 3.500 mm (0.138 in)
Recommended Hole Diameter in PC Board: 1.300 mm (0.051 in)

Bill of Materials
Solder Pin: Tin plated copper alloy Solder side: 1 mm (0.039 in.) or .1 (0.043 in.), plug-in side: .1 mm (0.043 in.) and 1.3 mm (0.051 in.)

Application
This can be plugged with the 930-FL (-DS) or 938-FL (-DS). Entry of the pin can be on top side or on the bottom of these plugs. You can stack the plug on top of each other when used with extra long pins on the 931-SLS strips. You can choose your pin length depending on the insertion forces or extraction forces required.

APPROVAL INFORMATION

UL File No. E69841 | CSA File No. LR24322

<table>
<thead>
<tr>
<th>Type</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Application Group</th>
<th>AWG</th>
<th>Screw Tightening Torque</th>
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</thead>
<tbody>
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<td>931-SLS 3.5 mm</td>
<td>6</td>
<td>300</td>
<td>B</td>
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PLUGGING PARTS

Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB

TYPE 930-FL (-DS)
3.50 mm spacing - 2-24 poles

TYPE 938-FL (-DS)
3.50 mm spacing - 2-24 poles
**Description:**

Length of Pinstrip (L)

$L = \text{No. of Poles} \times \text{Center to Center Spacing}$

Other options:

- In .10 mm diameter (D), the following protruding lengths (A) are available: 7.8, 10.3, 11.0, 11.7, 11.9, 12.5, 14.2, 14.7, and 15.7 mm.
- In .30 mm diameter (D), the following protruding lengths (A) are available: 6.5, 7.2, 7.7, 7.8, 8.5, 10.5, 11.0, 16.5, 19.8, 21.5, 22.0, and 29.0 mm.
SECTION A - SERIES 93-FL AND SERIES 95-FL

Terminal Blocks for Printed Circuit Boards

These two-part plug and pinstrip combinations provide a small footprint, and low-profile design when ease of service, manufacturing and testing are needed. The two parts are secured with a specially designed contact spring, which ensures proper electrical contact and resistance to vibration. The two-piece design reduces maintenance and servicing costs in the field it saves time and reduces the problem of inserting replacement wires under less than ideal field conditions.

Types 930-FL, 930-HSL and 931-HFL with 3.5 mm (0.138 in.) spacing and the type 950-FL-DS with 5.0 mm (0.197 in.) spacing were designed to meet industry standards.

The 950-TFL-DS type was designed as a dovetail block with 2, 3 and 8 poles per block the dovetail system provides the flexibility to assemble the designer with the needed number of positions while maintaining center-to-center spacing. The dovetail system greatly reduces inventory and speeds up delivery.

A variety of pinstrips can mate securely with the plugs to provide an effective and rapid connection system. The 3.5 mm 931-SLS is available with different pin lengths. The pins are inserted in pinstrips made of fiberglass-filled polybutylene terephthalate (PBTP) to provide better heat resistance during the wave soldering process.

The plug fits flush with the circuit board surface and provides a visual indication that the parts have been properly mated. Pinstrip pins are available in different lengths these longer pin lengths allow two blocks to be connected on a common pin, one on top of the other.

Each product has a "How To Order" area as well as a complete listing of UL and CSA approval specifications, available options and accessories.