Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

Smallest wire-to-board ‘potting’ connector with 3.00mm-high potting material to safeguard contact and latch areas in applications requiring environmental protection

Features and Advantages

Withstands up to 105°C operating temperatures
Meets the extended temperature requirements of various industries and withstands harsh environments

Tin-Bismuth terminals
Prevents whiskering for a clean and uninterrupted signal; supports terminal ruggedness and reliability

Smallest 1.25-mm-pitch vertical header with positive lock and potting capability
Delivers secure mating retention and environmental protection without sacrificing compactness

Crimp Terminal
505431-****

Receptacle Housing
505565-****
204532-**** (Low Halogen)

Plug Housing (Vertical)
505568-****

Plug Housing (Vertical)
205957-**** (Low Halogen)

Plug Housing Right-Angle
505567-****

Robust metal solder tabs
Provides secure PCB retention and strain relief to solder joints

Wide positive latch that delivers audible click
Offers contact assurance and secure mating retention

Added walls to protect positive lock from being immersed in potting material
Provides durability

Potting liquid (up to 3.00mm height)
Prevents ingress of dust and moisture

Micro-Lock Plus 1.25mm Pitch Vertical Header
(view of board with the connector mounted and potting liquid)

Potting version vs Normal version
Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

Markets and Applications

Industrial
- Power tools
- Test equipment
- Robots
- Factory automation
- Drones
- Vending machines

Consumer
- Refrigerators
- Air conditioners
- Hot water gas heaters

Specifications

REFERENCE INFORMATION
Packaging: Embossed (Header assembly)
Mates With: Micro-Lock Plus Connectors
Designed In: Millimeters
RoHS: Yes
Low halogen: Yes

ELECTRICAL
- Voltage (max.): 50V
- Current (max.): 3.6A * 2 circuit/26 AWG
- Contact Resistance (max.): 20 milliohms
- Dielectric Withstanding Voltage: 500V AC
- Insulation Resistance (min.): 100 Megohms

MECHANICAL
- Crimp Terminal Insertion Force (max.): 4.9N
- Crimp Terminal Retention Force (min.): 9.8N
- Crimping Pull Out Force (min.): 19.6N *26 AWG
- Housing Lock Strength (min.): 58.8N *14-16 circuits
- Durability (max.): 30 Cycles

PHYSICAL
- Header Housing − PA
- Header Pin: Copper Alloy, Tin Bismuth plating
- Operating Temperature: -40 to +105°C

Current Derating Reference Information

<table>
<thead>
<tr>
<th>AWG#</th>
<th>2-Circuit</th>
<th>8-Circuit</th>
<th>16-Circuit</th>
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<tr>
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<td>2.4</td>
<td>2.2</td>
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<td>2.8</td>
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# Micro-Lock Plus 1.25mm Pitch Vertical Header with Potting Capability

**Ordering Information**

## NEW 1.25 HEADER

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<tr>
<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Component</th>
<th>Circuits</th>
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<th>Color</th>
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<tbody>
<tr>
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<td>Vertical Header with potting capability</td>
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<td>Single</td>
<td>Black</td>
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## Existing 1.25 Micro-Lock Plus Connectors without Potting Capability

<table>
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<th>Series No.</th>
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<th>Component</th>
<th>Circuits</th>
<th>Rows</th>
<th>Color</th>
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<td>Female Receptacle Terminal</td>
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<td>204532</td>
<td>1.25</td>
<td>Receptacle Housing (Low Halogen)</td>
<td>2 to 16</td>
<td>Single</td>
<td>Black</td>
</tr>
</tbody>
</table>

www.molex.com/link/microlockplus.html

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