Ideal for compact applications, the Mini-Latch 2.50mm Wire-to-Board/Wire-to-Wire Connector System provides electrical and mechanical reliability in a high-temperature design that meets consumer and industrial application requirements.

**Features and Advantages**

- **Uses popular crimp terminals**
  Enables easy access to the crimp applicators as they are widely available in the market.

- **Through-hole square terminals**
  Provides ruggedness and reliability.

- **Housing lance fastened with terminal**
  Provides improved terminal retention.

- **Friction lock**
  Provides secure mating retention of housing and header.

- **2.50mm-pitch connector**
  Provides space saving.

- **Polarizing features**
  Ensures mating in proper orientation.

- **RoHS compliance and high-temperature capabilities**
  Withstands harsh environments.

**Markets and Applications**

- **Industrial Automation**
  Automation equipment

- **Consumer**
  White goods
  Gaming machines
  Drones
  Air conditioners
  Laser printers
  Vacuum cleaners
  Desktop PCs
  Power tools

- **Automotive**
  Steering wheel, paddle shift, combination switches
  Head-, rear- and side-mirror lights
  Internal connection with other units

- **Drones**
- **Gaming Machines**
- **White Goods**
- **Steering Wheel Switches**
- **Industrial Automation**
## Specifications

### REFERENCE INFORMATION
- Packaging: Reel (Terminal)
- Poly Bag (Header Assembly/Receptacle Housing)
- Mates With: Mini-Latch Connectors
- Use With: 51191/5240
- Terminal Used: 50802/5241
- Designed In: Millimeters
- RoHS: Yes
- Low Halogen: Yes

### ELECTRICAL
- Voltage (max.): 250V
- Current (max.): 3.0A (22 AWG)
- Contact Resistance (max.): 20 milliohms
- Dielectric Withstanding Voltage: 1000V AC (1 minute)
- Insulation Resistance (min.): 1000 Megaohms

### MECHANICAL
- Crimp Terminal Insertion Force (max.): 14.7N
- Crimp Terminal Retention Force (min.): 14.7N
- Crimping Strength (min.): 39.2N (22 AWG)
- Durability (max.): 30 Cycles

### PHYSICAL
- Housing: Receptacle − PA66, Header − PA66
- Contact: Phosphor, Bronze or Brass
- Plating (Receptacle): Contact Area — Pre-Tinned
- Plating (Header): Brass, Contact Area — Tin over Copper
- Operating Temperature: -40 to +105°C

## Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Component</th>
<th>Circuits</th>
<th>Rows</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>50802</td>
<td>2.50</td>
<td>Female Receptacle Terminal</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5241</td>
<td>2.50</td>
<td>Male Plug Terminal</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>51191</td>
<td>2.50</td>
<td>Receptacle Housing</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5240</td>
<td>2.50</td>
<td>Plug Housing</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5045</td>
<td>2.50</td>
<td>Vertical Header</td>
<td>2 to 15</td>
<td>Single</td>
<td>Natural</td>
</tr>
<tr>
<td>5046</td>
<td>2.50</td>
<td>Right-Angle Header</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>