**DDR4 miniDIMM Sockets**  
*Vertical, SMT, with and without center fork lock*

Achieve ultimate PCB space-savings in enterprise computing and networking memory applications with the industry’s first compact DDR4 miniDIMM Socket

### Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small form factor design (approximately 2/3 smaller than standard DDR4 DIMM sockets)</td>
<td>Maximizes space savings for tight-spaced memory applications</td>
</tr>
<tr>
<td>Metal grips on housing towers (patent pending)</td>
<td>Reduce shock or vibration to mounted memory module during transit</td>
</tr>
<tr>
<td>Latches that can withstand at least 25 mating cycles</td>
<td>Offer high durability in mission-critical applications</td>
</tr>
<tr>
<td>Profiled contacts with high normal force</td>
<td>Provides excellent contact reliability</td>
</tr>
<tr>
<td>Designed to withstand two reflow cycles</td>
<td>Ensures optimal performance under heat</td>
</tr>
<tr>
<td>Pick-and-place cap option</td>
<td>For automated processing</td>
</tr>
</tbody>
</table>

### Applications

**Data/Computing**
- High-end computing
- Personal computers
- RAID / Storage

**Telecommunications/Networking**
- Infrastructure
- Networking

### Product Features

- Anti-shock and anti-vibration metal grips on the latch towers of the socket (patent pending)
- Latch tower design of the DDR4 miniDIMM Socket
DDR4 miniDIMM Sockets
Vertical, SMT, with and without center fork lock

Specifications

Reference Information
Packaging: Tray
Use With: JEDEC MO-314 memory modules
Designed In: Millimeter
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: No

Electrical
Voltage (max.): 29V AC (RMS)/DC
Current (max.): 0.75A per pin
Low Level Contact Resistance (max.): 20 milliohms initial
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 1 Megohm

Mechanical
Module Insertion Force (max., with latches): 150.0N
Module Rip-out Force (min.): 3.6kgf
Module Unmating Force: 2.02kgf (14.4gf per pair pin)
Terminal Retention Force (min.):
300gf (per pin); 10.0N (per fork lock)
Latch Actuation Force (max.): 35.0N per latch
Durability: 25 cycles

Physical
Pitch: 0.50mm
Housing: LCP, glass-filled, black, UL94V-0
Latch: Polyamide, glass-filled, off-white, UL94V-0
Terminal: Copper Alloy
Plating:
Contact: 0.76μm Gold (Au) over 1.27μm Nickel;
Soldertails: 2.54μm Tin (Sn) over 1.27μm Nickel (Ni);
PCB Tabs: 2.54μm Tin (Sn) over 1.27μm Nickel (Ni)
Operating Temperature: -55 to +85°C

Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Style</th>
<th>Termination</th>
<th>Product Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>151105</td>
<td>miniDIMM</td>
<td>SMT</td>
<td>PS-151105-0001</td>
</tr>
</tbody>
</table>

DDR4 DIMM Connector Dimensions - miniDIMM Versus Standard Version
(Remark: Illustrations Not Drawn To Scale)

 DDR4 miniDIMM Module PCB Dimensions

www.molex.com