**Versatile, robust family of high-density 1.27mm wire-to-board Picoflex® headers and connectors, now with reverse PCB footprint SMT headers, offer space-saving solutions for a greater range of compact power and signal ribbon-cable applications**

Picoflex® headers and connectors provide highly reliable 1.27mm ribbon-cable connections with high-retention forces in an extremely diverse range of applications including solar, weighing systems, vehicle infotainment, computer peripherals, telecommunications and portable heart-rate monitors. Molex has expanded the Picoflex family to include reverse footprint SMT headers. Available with and without latches, the new headers offer customers a price competitive alternative system without the need for costly board re-design or layout changes.

For additional information and to view the full range of available Picoflex headers and connectors visit: [www.molex.com/product/ribbon/picoflex.html](http://www.molex.com/product/ribbon/picoflex.html)

### Features and Benefits

<table>
<thead>
<tr>
<th>Reverse PCB footprint SMT headers: series 93405 and 93407 compatible with Tyco’s Micro-Match series 188275</th>
<th>Provides second source on existing customer BOMs without the need for PCB re-design Vendor reduction, price competitiveness and shorter leadtime opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 93407 features positive retention latches</td>
<td>Increases mated connector retention force by 50% over standard friction-lock series 93405</td>
</tr>
<tr>
<td>SMT solder tails available</td>
<td>Header is soldered directly onto PCB pads</td>
</tr>
<tr>
<td>High-profile polarising peg</td>
<td>Avoids mis-mating of the header and receptacle Acts as a lead-in to aid assembly</td>
</tr>
<tr>
<td>Available with Tin (Sn) or Palladium Nickel (PdNi) + Gold (Au) flash plated contacts</td>
<td>Cost-effective plating solutions for varied applications</td>
</tr>
<tr>
<td>High-temperature housing materials</td>
<td>Compatible with RoHS lead-free reflow soldering processes up to +260°C</td>
</tr>
<tr>
<td>Optional PCB pegs to polarise header to PCB</td>
<td>Ensures accurate assembly</td>
</tr>
<tr>
<td>Available in tubes or tape and reel</td>
<td>Packaging options to meet customer volume requirements</td>
</tr>
</tbody>
</table>

### Applications

**Industrial**
- Solar
- Weighing systems
- Heating systems
- Security devices
- Access controls
- Industrial lighting
- Advertising displays
- Power supplies

**Automotive**
- Car Stereo systems
- Navigation systems
- In car entertainment
- Dashboard applications
- Air-conditioning units

**Medical**
- Portable heart monitor
- Patient monitor
- Blood analysers/testers
- Testers

**Consumer**
- Office equipment
- Vending machines
- Smart card reader
- Home appliance

**Used across all markets where signal and power connections are required**
Specifikationer

REFERENCE INFORMATION
Packing:
Tub / tape och reel / bags – check molex.com för detaljer av varje serie
Mates With: 90327 eller 93338 (Glow Wire Version)
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: Yes - Mate with 93338 series

MECHANICAL
Contact Insertion Force: 1.1N per circuit
Contact Retention to Housing: 7N
Insertion Force to PCB:
Mating Force:
Tin = 1.7 N
PdNi + Au flash = 1.5N
Unmating Force: 0.25N per circuit
Durability (min.):
Tin = 30 cycles
PdNi + Au flash = 100 cycles
90816 / 93407 = PdNi+Au flash – 5 cycles (using extraction tool)
due to latches

ELECTRICAL
Voltage (max.): 240V
Current (max.): 1.2A
Contact Resistance: 15 milliohms
Dielectric Withstanding Voltage: 750V
Insulation Resistance: 1000V min.

PHYSICAL
Housing: Refer to Sales Drawing
Contact: Refer to Sales Drawing
Plating:
Contact Area — Tin (Sn) or Palladium Nickel (PdNi) with Gold (Au) flash
Solder Tail Area — Tin (Sn)
Underplating — Nickel (Ni)
Operating Temperature:
-40 to +105°C

Ordering Information
Low Profile, SMT Headers - Reverse Footprint

<table>
<thead>
<tr>
<th>Number of Circuits</th>
<th>Order No. Standard SMT Header, Reverse Footprint</th>
<th>Order No. Latched SMT Header, Reverse Footprint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blister Pack</td>
<td>Tube</td>
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<tr>
<td>4</td>
<td>93405-0504</td>
<td>93405-0304</td>
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<tr>
<td>6</td>
<td>93405-0506</td>
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<tr>
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</tr>
<tr>
<td>20</td>
<td>93405-0520</td>
<td>93405-0320</td>
</tr>
</tbody>
</table>

Plating = Tin 2-4μm (80-160μ")
PdNi with gold flash plating available on request
Headers with PCB pegs available on request

Low Profile, IDT Receptacle

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<tr>
<td></td>
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<td>90327-0318</td>
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<tr>
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<td>90327-0320</td>
</tr>
</tbody>
</table>

Plating = Tin 2-4μm (80-160μ")
PdNi with gold flash plating available on request
Glow Wire version available on request

www.molex.com/product/ribbon/picoflex.html

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