FLEXIBLE POWER

mPOWER® 2.00 mm PITCH ULTRA MICRO POWER SYSTEM

- Design flexibility in one product family for board-to-board, cable-to-board and cable-to-cable applications
- 2 to 10 total positions
- Tin or 10 µ" gold plated power blades; 30 µ" gold plating available to meet specific regulations
- Discrete wire cable assemblies with rugged latching

- Standard creepage (2.20 mm) and clearance (1.65 mm)
- Cable components (IMPC/IMPCC/CC489; IMPE/IMPEC/TC146) and tooling available
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact asp@samtec.com

UMPT/UMPS
- 5-20 mm stack heights available
- Vertical or right-angle
- Optional weld tabs

UMPT-RA/UMPS
- Plastic top latch or metal side latches

UMPC
- 18 Amps
- Panel mount cable-to-cable system

UMPT shown at 4 total positions
- 15.30 mm
- 7.60 mm

* Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec

System
- UMPT/UMPT-RA – Power Terminal, Vertical and Right-Angle
- UMPS – Power Socket
- GPSO – SureWare™ Guide Post Standoff
- UMPC/UMPCT – Cable-to-Board Assembly, Socket
- UMPI/UMPIT – Cable-to-Cable Assembly, Socket
- IMPC/IMPCC/CC489 – Socket Cable Components
- UMPE/UMPET – Cable-to-Cable Assembly, Terminal
- IMPE/IMPEC/TC146 – Terminal Cable Components

For more information on Samtec's high-power systems, please visit samtec.com/mpower
CONNECTOR SPECIFICATIONS

CURRENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>CURRENT RATING (PER CONTACT)</th>
<th></th>
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<tbody>
<tr>
<td>PINS</td>
<td>-T</td>
<td>-G</td>
</tr>
<tr>
<td>1</td>
<td>17.8 A</td>
<td>17.5 A</td>
</tr>
<tr>
<td>2</td>
<td>15.5 A</td>
<td>16.3 A</td>
</tr>
<tr>
<td>3</td>
<td>13.5 A</td>
<td>13.9 A</td>
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<tr>
<td>4</td>
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<td>13.2 A</td>
</tr>
<tr>
<td>10</td>
<td>9.8 A</td>
<td>8.9 A</td>
</tr>
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</table>

Ratings are derated 20% with 30 °C rise to the maximum allowable temperature

CREEPAGE & CLEARANCE

<table>
<thead>
<tr>
<th>UMPT/UMPS</th>
<th>CREEPAGE</th>
<th>CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.20 mm</td>
<td>1.65 mm</td>
<td></td>
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</tbody>
</table>

Selectively loading contacts achieves customer specific creepage and clearance requirements. Contact asp@samtec.com

POWER SIMULATION

Samtec now offers power simulation that can calculate temperature increase in the connector area. Contact RuggedPower@samtec.com for more details.

MPOWER® SOLUTIONS

UMPS/UMPT
Power Socket and Terminal Vertical with Optional Weld Tabs Right-Angle with Latching (Cable Mate)

UMPC/UMPCT
Cable-to-Board Assembly, Socket PVC or Teflon™ Fluoropolymer Metal Side Latching or Plastic Top Latch

UMPI/UMPIT
Cable-to-Cable Assembly, Socket PVC or Teflon™ Fluoropolymer Panel Mount with Metal Side Latching

UMPE/UMPET
Cable-to-Cable Assembly, Terminal PVC or Teflon™ Fluoropolymer Metal Side Latching

GPSO
SureWare™ Guide Post Standoff 5 – 30 mm Stack Heights

IMPC/IMPCC/CC489
Socket Cable Components Body, Cable Holder, Contact

IMPE/IMEC/TC146
Terminal Cable Components Body, Cable Holder, Contact

Tooling
Mini Applicator

CAT-MC-489-1618-XX-01
(16-18 AWG)

CAT-MC-489-1818-XX-01
(18 AWG)

Visit samtec.com/tooling for more information.

For the latest information about product availability, or to discuss your high-power system application needs, please contact RuggedPower@samtec.com.