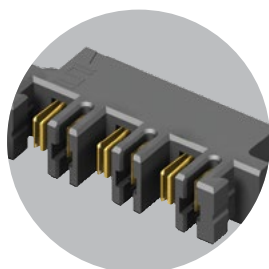


## HIGH POWER SYSTEMS

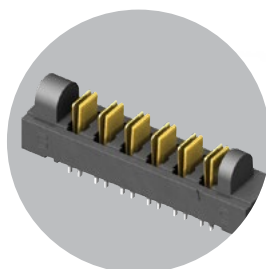
**20-60 A**  
per blade

### FEATURES & BENEFITS

- Current Rating: 23 A - 58.7 A per power blade
- 3.81 mm, 5.00 mm and 6.35 mm pitch
- Dual blade contact system
- Power only or power/signal combinations available
- Right-angle and vertical orientations
- Rugged screw down and locking clip options
- Discrete wire cable assemblies with 10-16 AWG wire (see pages 246-248)
- "Hinged" for unique mating in any orientation from 0° to 90° and space confined applications



Hermaphroditic options  
[samtec.com?MPPT](http://samtec.com?MPPT) and  
[samtec.com?UPPT](http://samtec.com?UPPT)



Hinging options available  
[samtec.com?FMPT](http://samtec.com?FMPT) and  
[samtec.com?FMPS](http://samtec.com?FMPS)

### CREEPAGE & CLEARANCE

| SERIES            | CREEPAGE | CLEARANCE |
|-------------------|----------|-----------|
| UPT/UPS/UPPT      | 5.50 mm  | 1.51 mm   |
| MPT/MPS/MPTC/MPSC | 2.95 mm  | 2.71 mm   |
| PET/PES/PETC/PESC | 3.66 mm  | 3.31 mm   |

Selectively loading contacts achieves customer specific creepage and clearance requirements.

### KEY SPECIFICATIONS

| SERIES    | PITCH                                                | INSULATOR MATERIAL | CONTACT MATERIAL                                           | PLATING                             | OPERATING TEMP RANGE                             | CURRENT RATING                                                     | VOLTAGE RATING                 | LEAD-FREE SOLDERABLE |
|-----------|------------------------------------------------------|--------------------|------------------------------------------------------------|-------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|--------------------------------|----------------------|
| UPT/UPS   | (3.81 mm)<br>.150"                                   | Black LCP          | BeCu                                                       | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 23 A<br>(1 pin powered)                                            | 438 VAC                        | Yes                  |
| UPPT      | (3.81 mm)<br>.150"                                   | Black LCP          | Copper Alloy                                               | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 21.4 A<br>(1 pin powered)                                          | 425 VAC                        | Yes                  |
| MPT/MPS   | (5.00 mm)<br>.1969"                                  | Black LCP          | Copper Alloy                                               | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 28.8 A<br>(1 pin powered)                                          | 575 VAC                        | Yes                  |
| MPTC/MPSC | (5.00 mm)<br>.197" (pwr)<br>(2.00 mm)<br>.079" (sig) | Black LCP          | Signal:<br>Phosphor<br>Bronze<br>Terminal:<br>Copper Alloy | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 28.8 A<br>(pwr - 1 pin powered)<br>5 A<br>(sig - 4 pins powered)   | 250 VAC                        | Yes                  |
| PET/PES   | (6.35 mm)<br>.250"                                   | Black LCP          | Copper Alloy                                               | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 58.7 A<br>(1 pin powered)                                          | 450 VAC                        | Yes                  |
| PETC/PESC | (6.35 mm)<br>.250" (pwr)<br>(2.54 mm)<br>.100" (sig) | Black LCP          | Copper Alloy                                               | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 31.4 A<br>(pwr - 1 pin powered)<br>5.7 A<br>(sig - 4 pins powered) | 650 VAC (pwr)<br>450 VAC (sig) | Yes                  |

## (5.00 mm) .1969" PITCH • 30 A DUAL BLADE/LEAF SYSTEMS

| SERIES                 | POWER PINS                     | LEAD STYLE                                    | TAIL LENGTH                                        | PLATING OPTION                                                                    | TAIL                                          |
|------------------------|--------------------------------|-----------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
| <b>MPT</b><br>Terminal | <b>-02, -03, -04, -06, -08</b> | <b>-6.30</b><br>= (6.30 mm) 0.248" (MPT only) | <b>-01</b><br>= Use with (1.60 mm) .062" Thick PCB | <b>-L</b><br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold on contact,<br>Matte Tin on tail | (Required Callout)<br><b>-V</b><br>= Vertical |
| <b>MPS</b><br>Socket   |                                | <b>-7.70</b><br>= (7.70 mm) 0.303" (MPS only) | <b>-03</b><br>= Use with (2.36 mm) .093" Thick PCB | <b>-T</b><br>= Matte Tin                                                          |                                               |

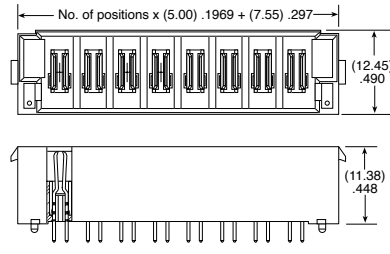
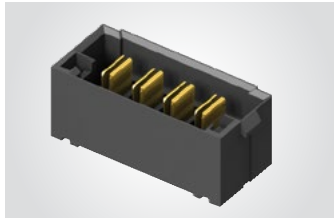
### MPT

Board Mates:

MPS

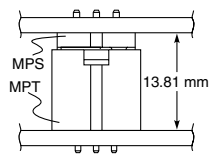
Cable Mates:

MPSS



| TAIL LENGTH | A           |
|-------------|-------------|
| -01         | (2.72) .107 |
| -03         | (3.51) .138 |

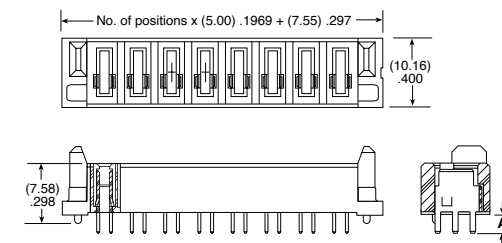
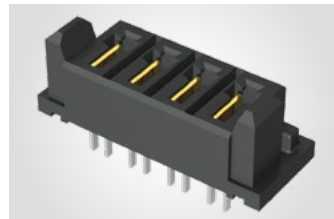
### MATED HEIGHT



### MPS

Board Mates:

MPT



| TAIL LENGTH | A           |
|-------------|-------------|
| -01         | (2.72) .107 |
| -03         | (3.52) .139 |

View complete specifications at: [samtec.com?MPT](http://samtec.com?MPT) & [samtec.com?MPS](http://samtec.com?MPS)

| SERIES                 | POWER PINS                | 01 | TAIL LENGTH                                        | PLATING OPTION                                                                 | RA | SD |
|------------------------|---------------------------|----|----------------------------------------------------|--------------------------------------------------------------------------------|----|----|
| <b>MPT</b><br>Terminal | <b>-02, -04, -06, -08</b> |    | <b>-01</b><br>= Use with (1.60 mm) .062" Thick PCB | <b>-L</b><br>= 10 $\mu$ " (0.25 $\mu$ m) Gold on contact,<br>Matte Tin on tail |    |    |
| <b>MPS</b><br>Socket   |                           |    | <b>-03</b><br>= Use with (2.36 mm) .093" Thick PCB | <b>-T</b><br>= Matte Tin                                                       |    |    |

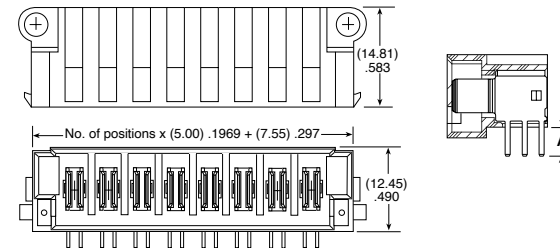
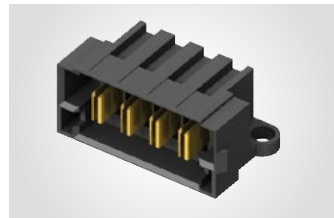
### MPT-RA

Board Mates:

MPS

Cable Mates:

MPSS

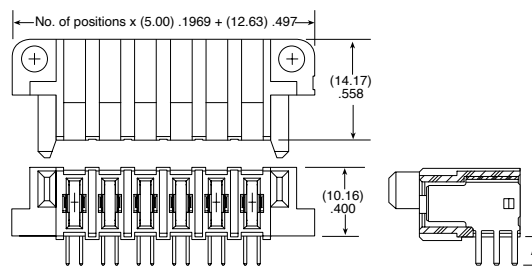


| TAIL LENGTH | A           |
|-------------|-------------|
| -01         | (2.72) .107 |
| -03         | (3.51) .138 |

### MPS-RA

Board Mates:

MPT



| TAIL LENGTH | A           |
|-------------|-------------|
| -01         | (2.72) .107 |
| -03         | (3.52) .139 |

**Note:**  
Some lengths, styles and options are non-standard, non-returnable

View complete specifications at: [samtec.com?MPT](http://samtec.com?MPT) & [samtec.com?MPS](http://samtec.com?MPS)

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