


**POWER™  
STRIP 30**

MPTC-01-80-01-6.30-01-L-V-LC

MPSC-01-80-01-7.70-01-L-V

(5.00 mm) .197" (PWR) (2.00 mm) .079" (SIG)

MPTC, MPSC SERIES

# 30 A SIGNAL/POWER COMBO SYSTEM

**MPTC Mates with:**  
MPSC, MPCC

**MPSC Mates with:**  
MPTC

## SPECIFICATIONS

 For complete specifications  
see [www.samtec.com?MPTC](http://www.samtec.com?MPTC)  
or [www.samtec.com?MPSC](http://www.samtec.com?MPSC)
**Insulator Material:**

Black LCP

**Terminal/Contact Material:****Signal:** Phosphor Bronze**Power:** Copper Alloy**Plating:**

Sn or Au over

50 μ" (1.27 μm) Ni

**Operating****Temp Range:**

-55 °C to +105 °C

with Tin

-55 °C to +125 °C

with Gold

**Voltage Rating:**

250 VAC/354 VDC

**Standard Creepage:**

MPTC: (2.86 mm) .113"

(power)

MPSC: (2.86 mm) .113"

(without -LC, power)

(2.69 mm) .105"

(with -LC, power)

**Standard Clearance:**

(2.71 mm) .106"

(without -LC, power)

MPTC: (2.54 mm) .100"

(with -LC, power)

MPSC: (1.93 mm) .076"

(with -LC, power)

**RoHS Compliant:**

Yes

**Lead-Free Solderable:**

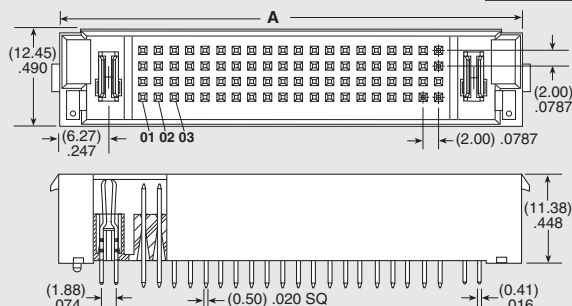
Yes

**Note:**Available standard power pin combinations:  
MPTC-01-XX-01 or MPTC-02-XX-02.

| MPTC-V/MPSC-V |                              |
|---------------|------------------------------|
| POWER PINS    | CURRENT RATING (PER CONTACT) |
| 1             | 28.8 A                       |
| 2             | 24.7 A                       |
| 3             | 24.1 A                       |
| 4             | 22.3 A                       |
| -T PLATING    |                              |

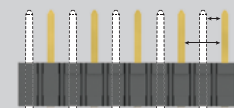
**RUGGEDIZED**  
BY SAMTEC

• Locking clip option



| POWER PINS/END | A                |                  |                  |                  |
|----------------|------------------|------------------|------------------|------------------|
|                | 16 SIGNAL PINS   | 24 SIGNAL PINS   | 40 SIGNAL PINS   | 80 SIGNAL PINS   |
| -01            | (27.44)<br>1.081 | (31.45)<br>1.238 | (39.44)<br>1.553 | (59.44)<br>2.340 |
| -02            | (37.44)<br>1.474 | (41.45)<br>1.632 | (49.44)<br>1.946 | (69.44)<br>2.734 |

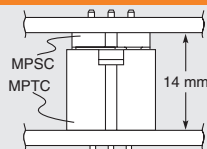
## CREEPAGE AND CLEARANCE


 Selectively loading  
contacts achieves customer  
specific creepage and  
clearance requirements.
Contact [asp@samtec.com](mailto:asp@samtec.com)

## RECOGNITIONS

 For complete scope  
of recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)


## MATED HEIGHT



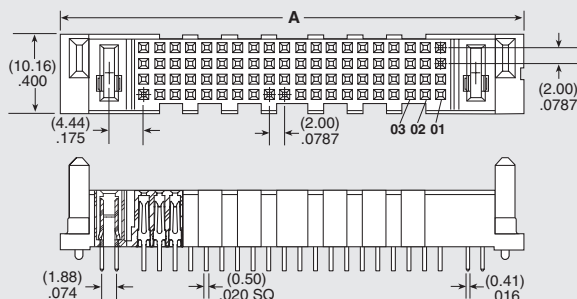
## ALSO AVAILABLE (MOQ Required)

- 4, 8, 36 and 48 total signal pins

**Note:**

Some sizes, styles and options are non-standard, non-returnable.

| MPSC                             | PWR PINS              | SIG PINS                         | PWR PINS                   | LEAD STYLE                                  | TAIL LENGTH                                 | PLATING OPTION                                                              | V                                                                                           | OTHER OPTION                                                                           |
|----------------------------------|-----------------------|----------------------------------|----------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| -01, -02<br>= Power Pins Per End | -16, -24,<br>-40, -80 | -01, -02<br>= Power Pins Per End | -7.70<br>= (7.70 mm) .303" | -01<br>= Use with (1.60 mm) .062" Thick PCB | -03<br>= Use with (2.36 mm) .093" Thick PCB | -L<br>= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail (Power & Signal) | -T<br>= Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal) | -LC<br>= Locking Clip (Manual placement required) (Not available with -16 signal pins) |

**Note:**Available standard power pin combinations:  
MPSC-01-XX-01 or MPSC-02-XX-02.

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

# Mouser Electronics

Authorized Distributor

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## Samtec:

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