


**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

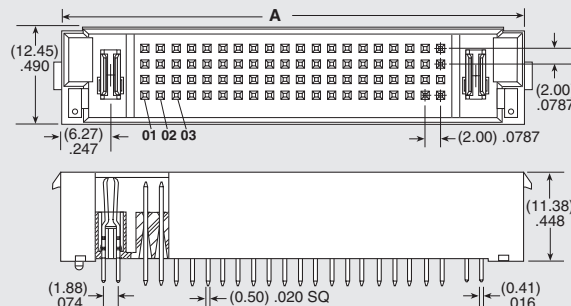
Note:

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    |                              |

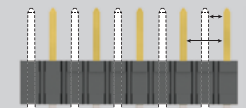
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• Locking clip option



| 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.

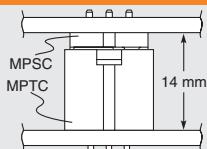
Contact [asp@samtec.com](mailto:asp@samtec.com)

## 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

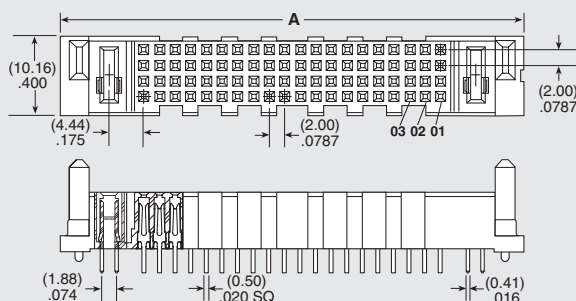
Note:

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             | -16, -24, -40, -80 | -01, -02             | -6.30              | -01                                  | -L                                                                    | -T                                                                                    |   | -LC                                                                             |
| = Power Pins Per End |                    | = Power Pins Per End | = (6.30 mm) 0.248" | = Use with (1.60 mm) .062" Thick PCB | = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail (Power & Signal) | = Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal) |   | = Locking Clip (Manual placement required) (Not available with -16 signal pins) |
|                      |                    |                      |                    | -03                                  |                                                                       |                                                                                       |   |                                                                                 |
|                      |                    |                      |                    | = Use with (2.36 mm) .093" Thick PCB |                                                                       |                                                                                       |   |                                                                                 |

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.