



# 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 μm (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

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	



**-01, -02**  
= Power Pins Per End

**-16, -24, -40, -80**

**-01, -02**  
= Power Pins Per End

**-6.30**  
= (6.30 mm) 0.248"

**-01**  
= Use with (1.60 mm) .062" Thick PCB

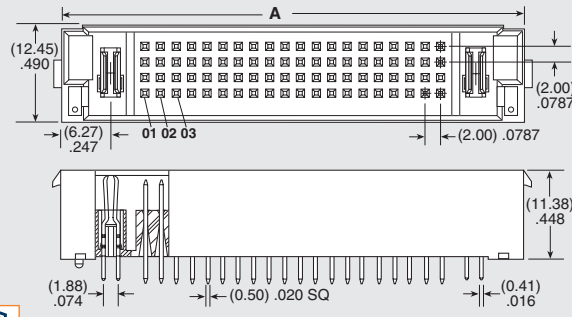
**-03**  
= Use with (2.36 mm) .093" Thick PCB

**-L**  
= 10 μm (0.25 μm) Gold on contact, Matte Tin on tail (Power & Signal)

**-T**  
= Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal)

**-LC**  
= Locking Clip (Manual placement required)

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

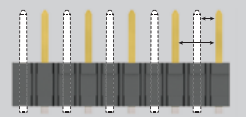


POWER PINS/END	A			
	16 SIGNAL PINS	24 SIGNAL PINS	40 SIGNAL PINS	80 SIGNAL PINS
<b>-01</b>	(27.44) 1.081	(31.45) 1.238	(39.44) 1.553	(59.44) 2.340
<b>-02</b>	(37.44) 1.474	(41.45) 1.632	(49.44) 1.946	(69.44) 2.734

**RUGGEDIZED**  
BY SAMTEC

- Locking clip option

## CREEPAGE AND CLEARANCE



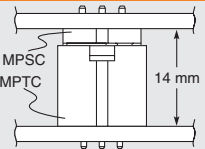
Selectively loading contacts achieves customer specific creepage and clearance requirements.  
Contact [asp@samtec.com](mailto:asp@samtec.com)

## 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.



**-01, -02**  
= Power Pins Per End

**-16, -24, -40, -80**

**-01, -02**  
= Power Pins Per End

**-7.70**  
= (7.70 mm) .303"

**-01**  
= Use with (1.60 mm) .062" Thick PCB

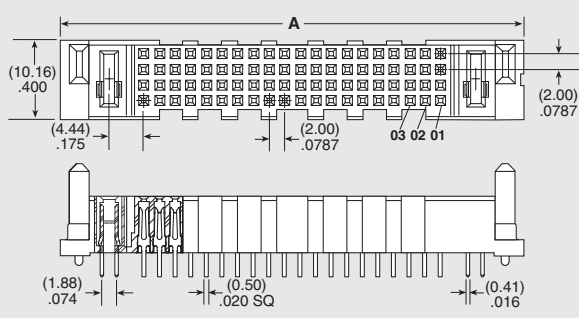
**-03**  
= Use with (2.36 mm) .093" Thick PCB

**-L**  
= 10 μm (0.25 μm) Gold on contact, Matte Tin on tail (Power & Signal)

**-T**  
= Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal)

**-LC**  
= 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. Components must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.