



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 or 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:

300 VAC/424 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	PWR PINS	SIG PINS	PWR PINS	LEAD STYLE	TAIL LENGTH	PLATING OPTION	V	OTHER OPTION
-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)

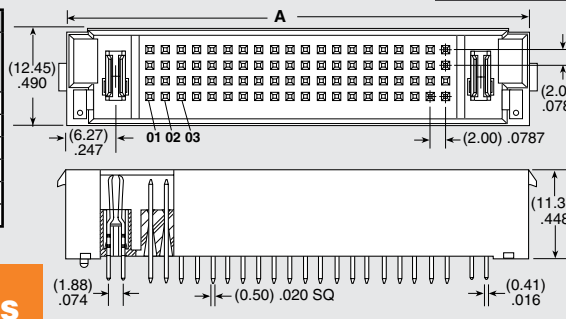
Note:
Available standard power pin combinations: MPTC-01-XX-01 or MPTC-02-XX-02. Contact Samtec for other options.

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
All	18.5 A

OTHER SOLUTIONS

- Right-angle
See MPTC-RA Series.

POWER PINS/END	A		
	16 SIGNAL PINS	24 SIGNAL PINS	80 SIGNAL PINS
-01	(27.44) 1.081	(31.45) 1.238	(59.44) 2.340
-02	(37.44) 1.474	(41.45) 1.632	(69.44) 2.734



• Locking clip option

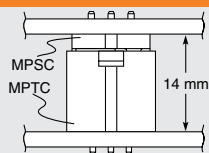
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

MATED HEIGHT



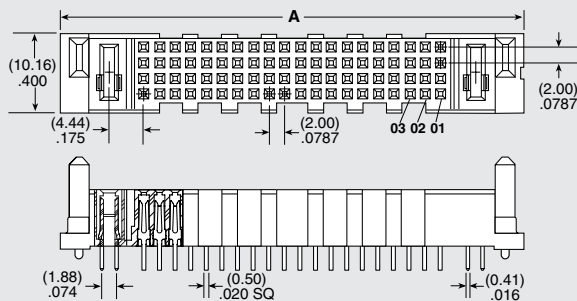
ALSO AVAILABLE (MOQ Required)

- 4, 8, 36 and 48 total signal pins
 - Increased creepage and clearance with the removal of contacts
- Contact Samtec.

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 = 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. Contact Samtec for other options.



POWER PINS/END	A		
	16 SIGNAL PINS	24 SIGNAL PINS	80 SIGNAL PINS
-01	(27.44) 1.081	(31.45) 1.238	(59.44) 2.340
-02	(37.44) 1.474	(41.45) 1.632	(69.44) 2.734