

(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 μ" (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
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-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 μ" (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)

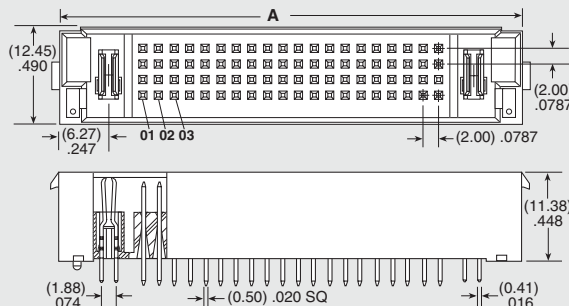
Note:

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

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

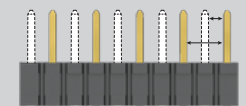
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• Locking clip option



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

CREEPAGE AND CLEARANCE



Selectively loading contacts achieves customer specific creepage and clearance requirements.

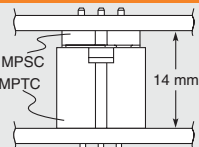
Contact asp@samtec.com

RECOGNITIONS

For complete scope of
recognitions see
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
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-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

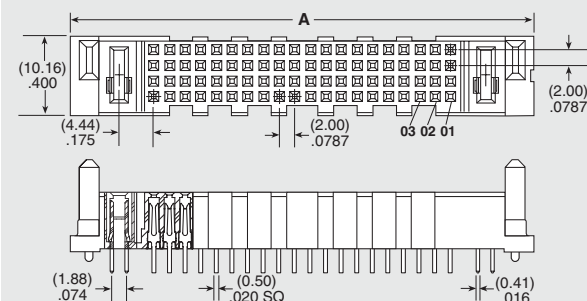
-L
= 10 μ" (0.25 μm) Gold on
contact, Matte Tin on tail
(Power & Signal)

-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

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.