



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
50µ" (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

RoHS Compliant:

Yes

Lead-Free Solderable:

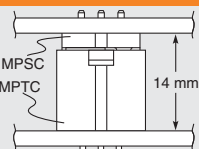
Yes

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
Contact Samtec.

OTHER SOLUTIONS

- Right Angle.
See MPTC-RA Series.

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

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
= Signal Pins

-24
= Signal Pins

-80
= Signal Pins

-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

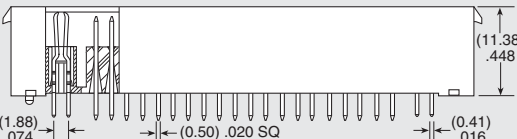
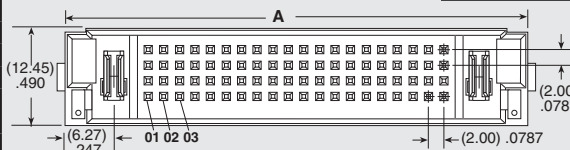
-L
= 10µ" (0.25 µm) Gold on
contact, Matte Tin on tail
(Power & Signal)

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

-LC
= Locking
Clip
(Manual
placement
required)

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

-T PLATING



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

RUGGEDIZED
BY SAMTEC

• Locking clip option

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
= Signal Pins

-24
= Signal Pins

-80
= Signal Pins

-01, -02
= Power Pins
Per End

-7.70
= (7.70 mm)
.303"

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

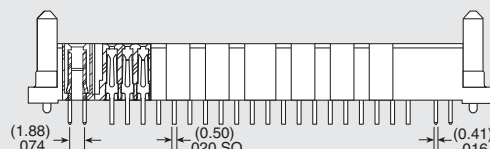
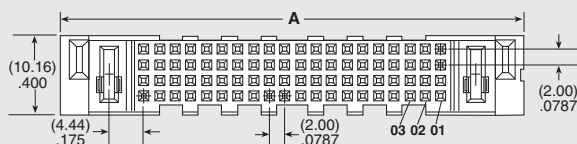
-03
= Use with
(2.36 mm) .093"
Thick PCB

-L
= 10µ" (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