

(5.00 mm) .197" (PWR) (2.00 mm) .079" (SIG)

MPTC-RA, MPSC-RA SERIES

30 A RIGHT-ANGLE SIGNAL/POWER COMBO

MPTC-RA Mates with:
MPSC, MPCC

MPSC-RA 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

Voltage Rating:

Power:
600 VAC/848 VDC

Signal:
450 VAC/636 VDC

Standard Creepage:
(2.86 mm) .113"
(without -LC, power)

MPTC: (2.59 mm) .101"

(with -LC, power)

MPSC: (2.60 mm) .102"

(with -LC, power)

Standard Clearance:

MPTC: (2.72 mm) .107"

(without -LC, power)

(1.84 mm) .072"

(with -LC, power)

MPSC: (2.71 mm) .106"

(without -LC, power)

(1.85 mm) .073"

(with -LC, power)

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

MPTC-RA/MPSC-RA	
POWER PINS	CURRENT RATING (PER CONTACT)
1	28.8 A
2	24.7 A
3	24.1 A
4	22.3 A
-T PLATING	

RECOGNITIONS

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



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

MPTC	PWR PINS	SIG PINS	PWR PINS	01	TAIL LENGTH	PLATING OPTION	RA	OTHER OPTION
-01, -02	= Power Pins Per End	-24 = Total Signal Pins	-80 = Total Signal Pins	-01, -02 = Power Pins Per End	-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)	-SD or -LC is a required callout -SD = Screw Down -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	
	24 SIGNAL PINS	80 SIGNAL PINS
-01	(35.25) 1.388	(63.25) 2.490
-02	(45.25) 1.781	(73.25) 2.884

CREEPAGE AND CLEARANCE

Selectively loading contacts achieves customer specific creepage and clearance requirements.
Contact asp@samtec.com

MPSC	PWR PINS	SIG PINS	PWR PINS	01	TAIL LENGTH	PLATING OPTION	RA	OTHER OPTION
-01, -02	= Power Pins Per End	-24 = Total Signal Pins	-80 = Total Signal Pins	-01, -02 = Power Pins Per End	-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)	-SD or -LC is a required callout -SD = Screw Down -LC = Locking Clip (Manual placement required)	

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

POWER PINS/END	A	
	24 SIGNAL PINS	80 SIGNAL PINS
-01	(36.52) 1.438	(64.52) 2.540
-02	(46.52) 1.831	(74.52) 2.934

POWER PINS/END	A	
	24 SIGNAL PINS	80 SIGNAL PINS
-01	(36.52) 1.438	(64.52) 2.540
-02	(46.52) 1.831	(74.52) 2.934

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.
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.