



IPT1-120-01-S-D-RA

IPT1-110-01-S-D

IPS1-120-01-S-D-VS

MINI MATE[®] CONNECTOR SET IPT1, IPS1

SPECIFICATIONS

For complete specifications see www.samtec.com?IPT1 or www.samtec.com?IPS1

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Sn or Au over 50µ" (1,27µm) Ni

Operating Temp Range:

-55°C to +105°C with Tin;

-55°C to +125°C with Gold

Insertion Depth:

(2,79mm) .255"

Wiping Distance:

(0,38mm) .015"

Insertion Force (SMT):

3.0oz (0,83N) avg.

Withdrawal Force (SMT):

2.6oz (0,72N) avg.

Insertion Force (T/H):

6.0oz (1,67N) avg.

Withdrawal Force (T/H):

5.0oz (1,39N) avg.

Voltage Rating:

550 VAC

RoHS Compliant:

Yes

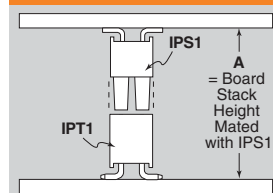
CURRENT RATING

AMBIENT TEMP	IPT1/IPS1
20°C	5.2A
40°C	4.6A
60°C	4.0A
95°C	2.7A
2x3 CLUSTER POWERED	

APPLICATION SPECIFIC OPTION

Latching feature available. Call Samtec.

APPLICATION



Processing:

Max Processing Temp:

230°C for 60 seconds, or

260°C for 20 seconds 3x

Lead-Free Solderable: Yes

SMT Lead Coplanarity:

(0,13mm) .005" max (05-10)

(0,15mm) .006" max (15-25)

Note:

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

IPT1 - **1** NO. PINS PER ROW - **LEAD STYLE** - **PLATING OPTION** - **D** - **TAIL OPTION** - **OTHER OPTION**

Mates with: IPS1

05, 10, 15, 20, 25
(Call Samtec for other sizes)

Specify LEAD STYLE from chart

-S
= 30µ" (0,76µm) Gold on contact, Matte Tin on Tail

Requires -01 Lead Style (Leave blank for Through-Hole)

-RA
= Right Angle

-VS
= Surface Mount

-K
= (6,00mm) .236" DIA Polyimide film Pick & Place Pad (-VS only)

-LC
= Locking Clip (-VS only)

-A
= Alignment Pin (-VS only)

-POL
= No. 1 position polarized

LEAD STYLE	A	B	C
-01	(11,05) .435	(5,84) .250	(2,16) .085
-01-VS	(13,59) .535	(5,84) .250	N/A
-02	(14,00) .551	(9,30) .366	(2,64) .104
-03	(16,00) .630	(11,30) .445	(2,16) .085
-04	(17,00) .669	(12,30) .484	(2,69) .106
-05	(19,00) .748	(14,30) .563	(2,46) .097
-06	(20,00) .787	(15,30) .602	(2,35) .093
-07	(25,00) .984	(20,30) .799	(2,31) .091
-08	(30,00) 1.181	(25,30) .996	(2,39) .094
-09	(35,00) 1.378	(30,30) 1.193	(2,46) .097

No. of positions x (2,54) .100 + (0,51) .020 50

Through-hole Surface Mount

(5,08) .200

(2,54) .100

(2,54) .100

(7,16) .282

(1,27) .050

(2,30) .090

(1,50) .060

(2,54) .100

(0,51) .020

(0,64) .025 SQ

IPS1 - **1** NO. PINS PER ROW - **01** - **PLATING OPTION** - **D** - **TAIL OPTION** - **OTHER OPTION** - **POL OPTION**

Mates with: IPT1

05, 10, 15, 20, 25
(Call Samtec for other sizes)

-S
= 30µ" (0,76µm) Gold on contact, Matte Tin on Tail

Leave blank for Through-hole

-VS
= Surface Mount

-RA
= Right Angle

-K
= (5,50mm) .217" DIA Polyimide film Pick & Place Pad (-VS only)

-LC
= Locking Clip (-VS only)

-POL
= No. 1 position polarized

-TR
= Tape & Reel Packaging

No. of positions x (2,54) .100 + (0,38) .015

Through-hole Surface Mount

(2,54) .100

(4,95) .195

(2,54) .100

(2,54) .100

(8,51) .335

(2,54) .100

(1,27) .050

(7,87) .310

(0,51) .020

(0,79) .031

(0,41) .016

Due to technical progress, all designs, specifications and components are subject to change without notice.

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