



(2,54mm) .100"

IPT1, IPS1 SERIES

IPS1-120-01-L-D-RA

IPS1-120-01-L-D-VS

IPT1-110-01-L-D

SHROUDED POWER CONNECTOR SET

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: (3,71mm)

.146" to (6,48mm) .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

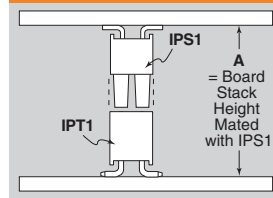
AMBIENT TEMP	IPT1/IPS1
20°C	8A
40°C	7.2A
60°C	6A
95°C	4.1A

6 POSITIONS (2x3)

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: Other Gold plating options available. Contact Samtec.

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

-L = 10µ" (0,25µm) 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) (N/A with -A)
-A = Alignment Pin (-VS only) (N/A with -LC)
-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

Through-hole Surface Mount

(5,08) .200 (2,54) .100 (2,54) .100 (7,16) .282 (1,50) .060 (2,30) .090 (1,27) .050 (0,51) .020 (0,64) .025 SQ

RUGGEDIZED by SAMTEC

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)

-L = 10µ" (0,25µm) 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)
-TR = Tape & Reel Packaging

-POL = No. 1 position polarized

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

Through-hole Surface Mount

(2,54) .100 (2,54) .100 (4,95) .195 (3,81) .150 (8,51) .335 (2,54) .100 (1,27) .050 (7,87) .310 (2,54) .100 (2,54) .100

TIGER BUY CONTACT

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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329 SAMTEC UK • Tel: 44 01236 739292
 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0 SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292
 SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-61103766
 SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112 SAMTEC ANZ • Tel: 613 9512 7747