



IPT1-120-01-S-D-RA

IPT1-110-01-S-D

IPS1-120-01-S-D-VS

# MINI MATE<sup>®</sup> CONNECTOR SET IPT1, IPS1

## SPECIFICATIONS

For complete specifications see [www.samtec.com?IPT1](http://www.samtec.com?IPT1) or [www.samtec.com?IPS1](http://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) .110" 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



**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

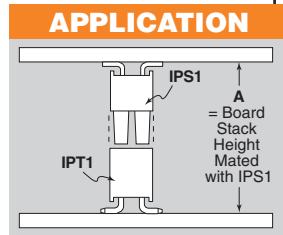
**-K** = (6,00mm) .236" DIA Polyimide film Pick & Place Pad (-VS only)  
**-LC** = Locking Clip (-VS only)  
**-A** = Alignment Pin (-VS only)  
**-POL** = No. 1 position polarized

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

| 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.



**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.

**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)  
**-TR** = Tape & Reel Packaging

**-POL** = No. 1 position polarized



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

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