

# MINI MATE® 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:** (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:** See table below

**Application Specific Option:** Latching feature available. Call Samtec.

**Application:** See diagram below

**Processing:** See table below

**Note:** Other Gold plating options available. Contact Samtec.

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

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

6 POSITIONS (2x3)

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

Mates with: **IPS1**

Specify **LEAD STYLE** from chart

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

**-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) (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

**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)

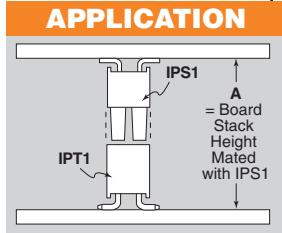
**-S** = 30µ" (0,76µm) Gold on contact, Matte Tin on Tail

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



**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 - **01** - **PLATING OPTION** - **D** - **TAIL OPTION** - **OTHER OPTION** - **POL OPTION**

Mates with: **IPS1**

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

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

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