

# 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

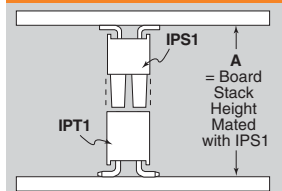
**RoHS Compliant:** Yes

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

## 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

**-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

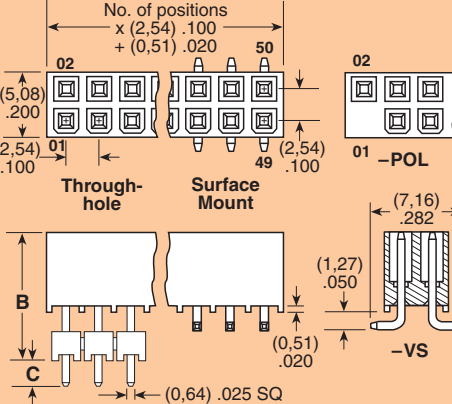
**-K**  
= (6,00mm)  
.236" DIA  
Polyimide film  
Pick & Place Pad  
(-VS only)

**-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

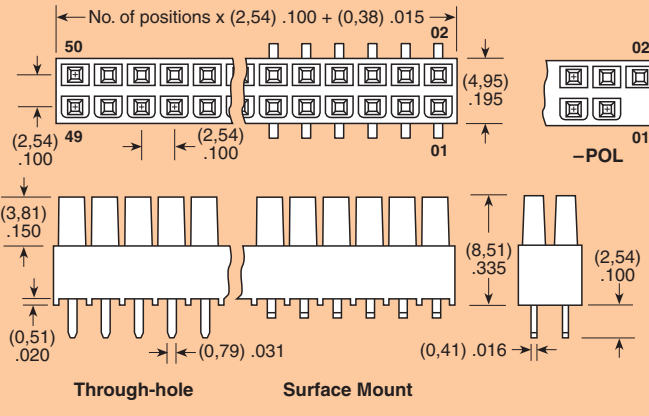
**-RA**  
= Right Angle

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

**-LC**  
= Locking Clip  
(-VS only)

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

**-TR**  
= Tape &  
Reel  
Packaging



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

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