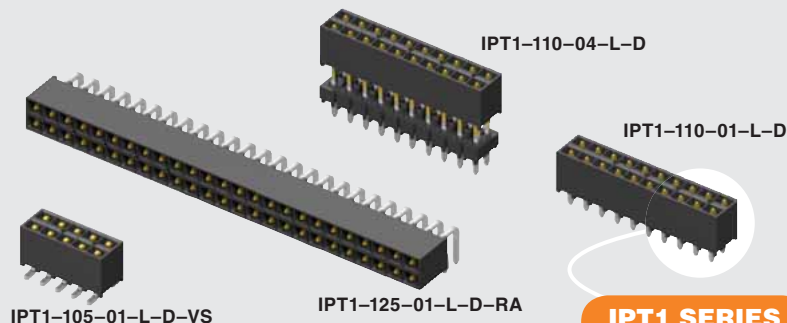




(2,54 mm) .100"



IPT1 SERIES

# SHROUDED POWER CONNECTOR SET

## SPECIFICATIONS

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

### Insulator Material:

Black LCP

### Contact Material:

Phosphor Bronze

### Plating:

Sn or Au over 50µ" (1.27 µm) Ni

### Operating Temp Range:

-55°C to +105°C with Tin;

-55°C to +125°C with Gold

### Insertion Depth:

(3.81 mm) .150" to

(6.48 mm) .255"

### Wiping Distance:

(0.38 mm) .015"

### Insertion Force (SMT):

3.0 oz (0.83 N) avg.

### Withdrawal Force (SMT):

2.6 oz (0.72 N) avg.

### Insertion Force (T/H):

6.0 oz (1.67 N) avg.

### Withdrawal Force (T/H):

5.0 oz (1.39 N) avg.

### Voltage Rating:

775 VAC/1095 VDC

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable: Yes

### SMT Lead Coplanarity:

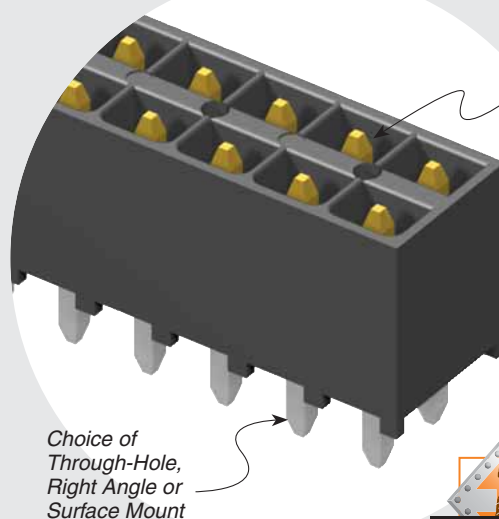
(0.13 mm) .005" max (05-10)

(0.15 mm) .006" max (15-25)

Mates with:

IPS1

| IPT1/IPS1 |                              |
|-----------|------------------------------|
| PINS      | CURRENT RATING (PER CONTACT) |
| 1         | 5.9 A                        |
| 2         | 4.8 A                        |
| 3         | 4.1 A                        |
| 4         | 3.6 A                        |
| ALL       | 2.3 A                        |



Each pin individually shrouded for electrical and mechanical protection

(6.35 mm)  
.250"

Choice of  
Through-Hole,  
Right Angle or  
Surface Mount



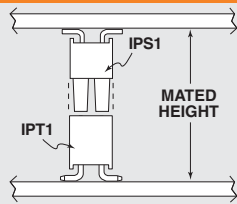
- Individually shrouded contacts
- Locking clip option

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## APPLICATION



## ALSO AVAILABLE (MOQ Required)

- Other sizes
- Other platings
- Latching feature
- No. 1 position polarized Contact Samtec.

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

**IPT1** - **1** NO. PINS PER ROW

**05, 10, 15, 20, 25**  
(Standard sizes)

**LEAD STYLE**

Specify LEAD STYLE from chart

**PLATING OPTION**

**-L**  
= 10µ" (0.25 µm)  
Gold on contact, Matte Tin on tail

**D** - **TAIL OPTION**

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

**-RA**  
= Right Angle

**-VS**  
= Surface Mount

**OTHER OPTION**

**-A**  
= Alignment Pin (-VS only) (N/A with -LC)

**-LC**  
= Locking Clip (Manual placement required) (-VS only) (N/A with -A)

**-K**  
= (6.00 mm) .236" DIA Polyimide film Pick & Place Pad (-VS only)

**-TR**  
= Tape & Reel Packaging (-VS only)

| LEAD STYLE | MATED HEIGHT     | A                | B              |
|------------|------------------|------------------|----------------|
| -01        | (11.05)<br>.435  | (6.35)<br>.250   | (2.16)<br>.085 |
| -01-VS     | (13.59)<br>.535  | (6.35)<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 |

**Through-hole** **Surface Mount**

Through-hole dimensions: No. of positions x (2.54) .100 + (0.51) .020. Pin pitch: (2.54) .100. Mated height: (5.08) .200. Pin diameter: (0.64) .025 SQ.

Surface Mount dimensions: Pin pitch: (2.54) .100. Pin diameter: (0.64) .025 SQ. Pin height: (1.27) .050. Pin width: (0.51) .020. Pin spacing: (0.64) .025 SQ.

Right Angle (-RA) dimensions: Pin pitch: (2.54) .100. Pin height: (1.50) .060. Pin width: (2.30) .090.

Surface Mount (-VS) dimensions: Pin pitch: (2.54) .100. Pin height: (1.27) .050. Pin width: (0.51) .020.