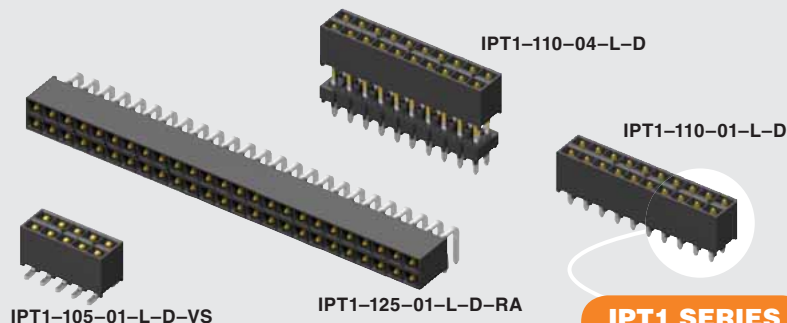




(2,54 mm) .100"



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:

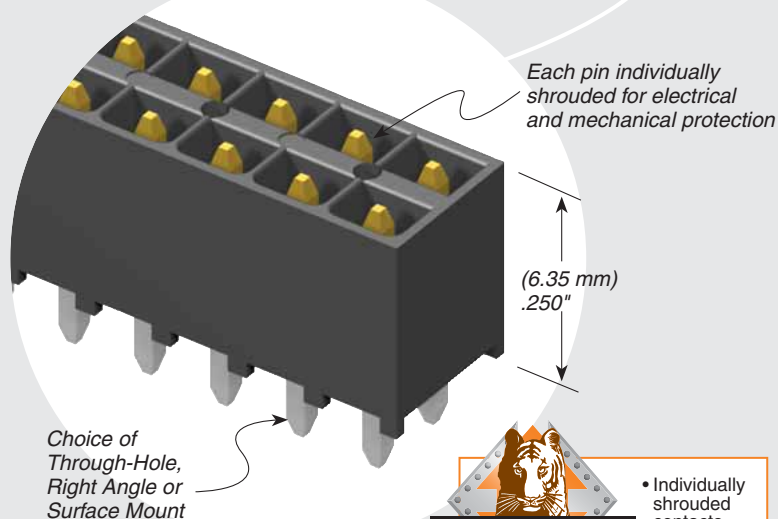
(0.13 mm) .005" max (05-10)

(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                        |



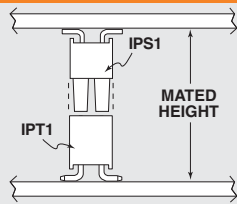
- Individually shrouded contacts
- Locking clip option

## 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)

**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) .435  | (6.35) .250   | (2.16) .085 |
| -01-VS     | (13.59) .535  | (6.35) .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 |

Through-hole

Surface Mount

-VS

-RA