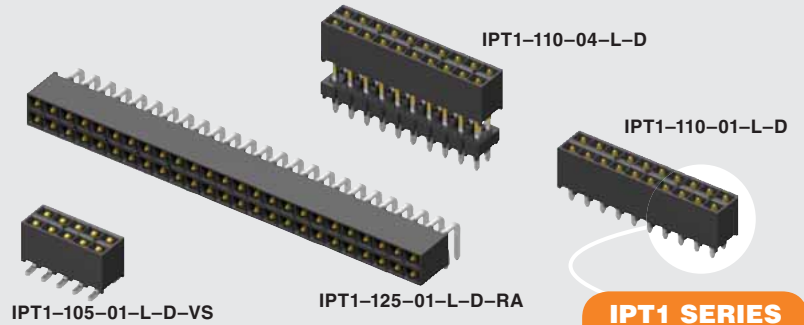




(2,54 mm) .100"



**IPT1 SERIES**

# SHROUDED POWER CONNECTOR SET

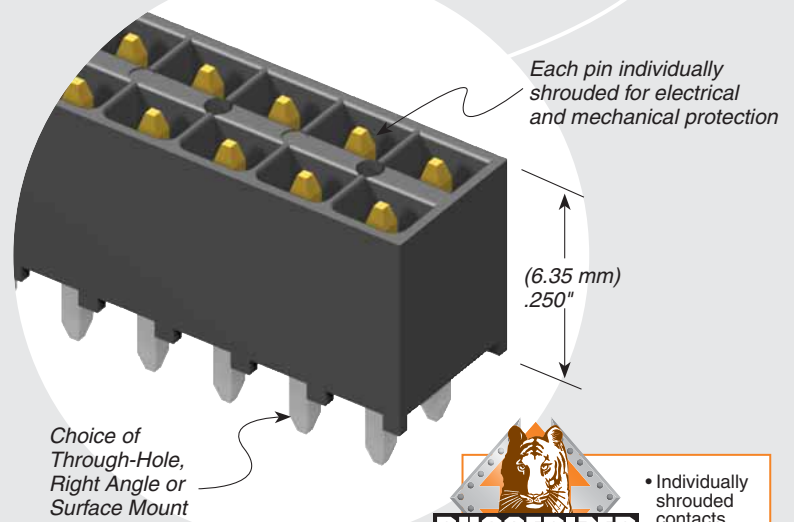
## SPECIFICATIONS

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

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

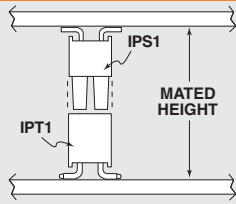
**Processing:**  
Lead-Free Solderable: Yes  
SMT Lead Coplanarity: (0.13 mm) .005" max (05-10) (0.15 mm) .006" max (15-25)

## 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
<b>-01</b>	(11.05) 435	(6.35) 250	(2.16) 085
<b>-01-VS</b>	(13.59) 535	(6.35) 250	N/A
<b>-02</b>	(14.00) 551	(9.30) 366	(2.64) 104
<b>-03</b>	(16.00) 630	(11.30) 445	(2.16) 085
<b>-04</b>	(17.00) 669	(12.30) 484	(2.69) 106
<b>-05</b>	(19.00) 748	(14.30) 563	(2.46) 097
<b>-06</b>	(20.00) 787	(15.30) 602	(2.35) 093
<b>-07</b>	(25.00) 984	(20.30) 799	(2.31) 091
<b>-08</b>	(30.00) 1181	(25.30) 996	(2.39) 094
<b>-09</b>	(35.00) 1378	(30.30) 1193	(2.46) 097

Through-hole: No. of positions x (2.54) .100 + (0.51) .020

Surface Mount: (5.08) .200

Through-hole dimensions: (2.54) .100, (2.54) .100, (0.64) .025 SQ

Surface Mount dimensions: (7.16) .282, (1.27) .050, (1.50) .060, (2.30) .090, (2.54) .100