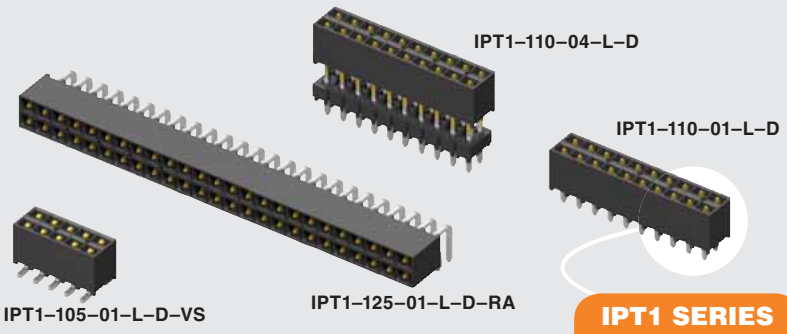
samtec

mini MATE

(2,54 mm) .100"




IPT1 SERIES

# SHROUDED POWER CONNECTOR SET

## SPECIFICATIONS

For complete specifications see www.samtec.com?IPT1

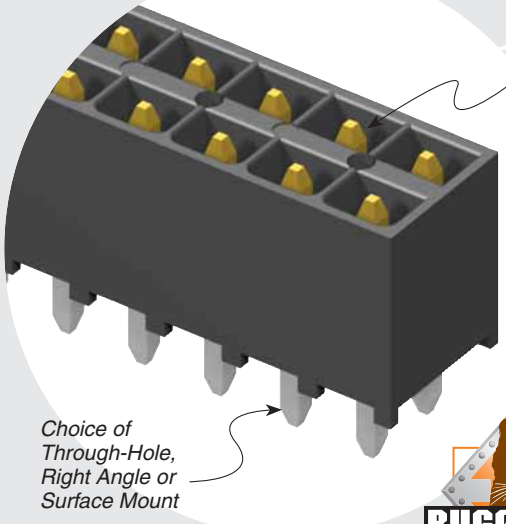
**Insulator Material:** Black LCP
**Contact Material:** Phosphor Bronze
**Plating:** Sn or Au over 50µ" (1.27 µm) Ni
**Operating Temp Range:** -55°C to +105°C with Tin; -55°C to +125°C with Gold
**Insertion Depth:** (3.81 mm) .150" to (6.48 mm) .255"
**Wiping Distance:** (0.38 mm) .015"
**Insertion Force (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 |




RUGGEDIZED by SAMTEC

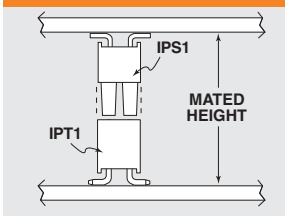
- Individually shrouded contacts
- Locking clip option

## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

## 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 – LEAD STYLE – PLATING OPTION – D – TAIL OPTION – OTHER OPTION

**NO. PINS PER ROW:** 05, 10, 15, 20, 25 (Standard sizes)

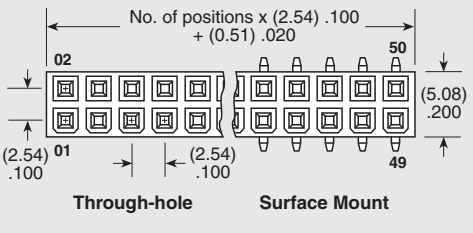
**LEAD STYLE:** Specify LEAD STYLE from chart

**PLATING OPTION:**
**–L** = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail

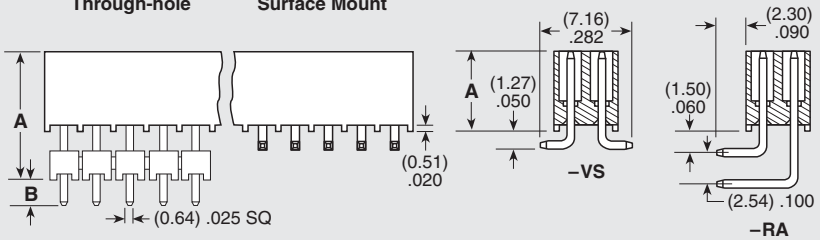
**TAIL OPTION:** Requires –01 Lead Style (Leave blank for Through-Hole)
**–RA** = Right Angle
**–VS** = Surface Mount

**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) .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






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