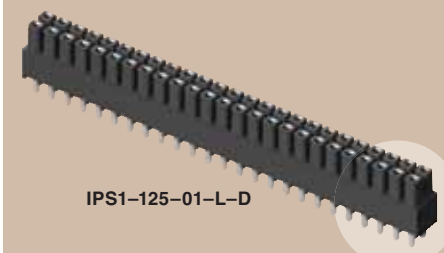
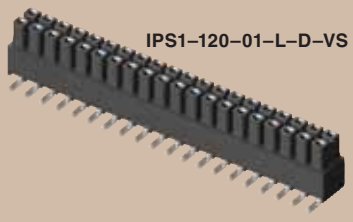
samtec

mini MATE®

(2,54 mm) .100"




IPS1 SERIES

# SHROUDED POWER CONNECTOR SET

## SPECIFICATIONS

For complete specifications see www.samtec.com?IPS1

**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:**
550 VAC/777 VDC
**RoHS Compliant:**
Yes

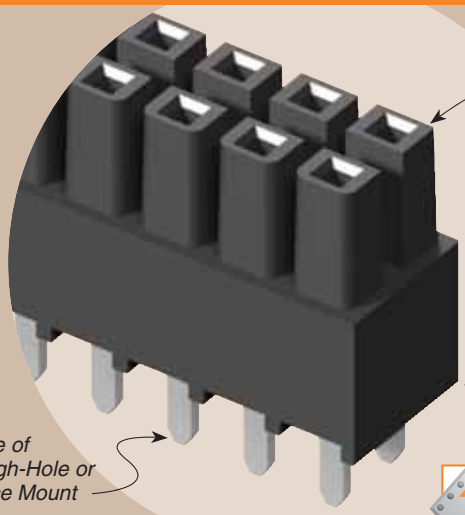
### Processing:

**Lead–Free Solderable:**
Yes
**SMT Lead Coplanarity:**
(0,13 mm) .005" max (05-10)
(0,15 mm) .006" max (15-25)

**Mates with:**
IPT1

TIGER BUY CONTACT™

| 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

## 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.

| IPS1 | – | 1 | NO. PINS PER ROW | – | 01 | – | PLATING OPTION | – | D | – | TAIL OPTION | – | OTHER OPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

**–L**
= 10µ" (0,25 µm) Gold on contact, Matte Tin on tail

**Leave blank for Through-hole**

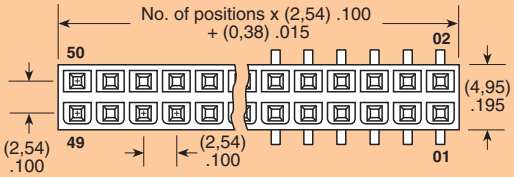
**–VS**
= Surface Mount

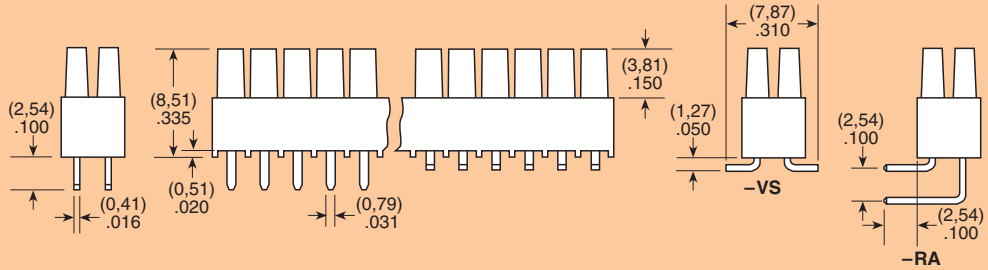
**–RA**
= Right Angle

**–LC**
= Locking Clip (Manual placement required) (–VS only)

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

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




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



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