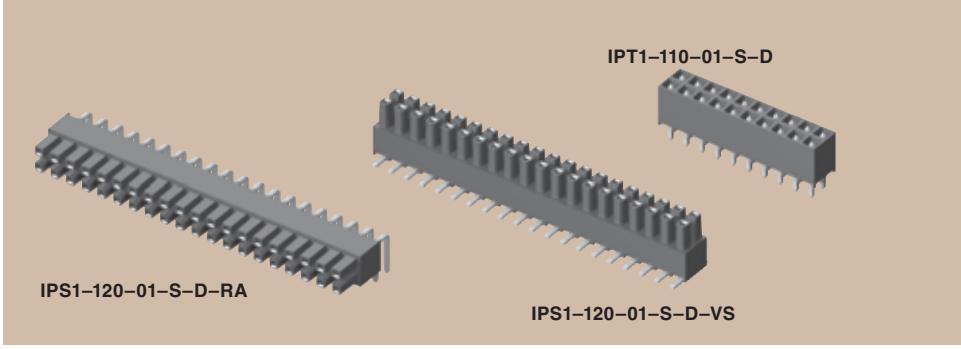
samtec

mini MATE®



MINI MATE® CONNECTOR SET IPT1, IPS1

SPECIFICATIONS

For complete specifications see www.samtec.com?IPT1 or www.samtec.com?IPS1

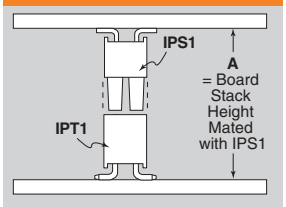
Insulator Material: Black LCP
Contact Material: Phosphor Bronze
Plating: Sn or Au over 50µ" (1,27µm) Ni
FILE NO. E111594
Operating Temp Range: -55°C to +105°C with Tin; -55°C to +125°C with Gold
Insertion Depth: (3,71mm) .146" to (6,48mm) .255"
Wiping Distance: (0,38mm) .015"
Insertion Force (SMT): 3.0oz (0,83N) avg.
Withdrawal Force (SMT): 2.6oz (0,72N) avg.
Insertion Force (T/H): 6.0oz (1,67N) avg.
Withdrawal Force (T/H): 5.0oz (1,39N) avg.
Voltage Rating: 550 VAC
RoHS Compliant: Yes

CURRENT RATING	
AMBIENT TEMP	IPT1/IPS1
20°C	8A
40°C	7.2A
60°C	6A
95°C	4.1A
6 POSITIONS (2x3)	

APPLICATION SPECIFIC OPTION

Latching feature available. Call Samtec.

APPLICATION



Processing:

Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x
Lead–Free Solderable: Yes
SMT Lead Coplanarity: (0,13mm) .005" max (05-10) (0,15mm) .006" max (15-25)

Note: Other Gold plating options available. 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

Mates with: IPS1

05, 10, 15, 20, 25 (Call Samtec for other sizes)

Specify LEAD STYLE from chart

–S = 30µ" (0,76µm) Gold on contact, Matte Tin on Tail

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

–RA = Right Angle

–VS = Surface Mount

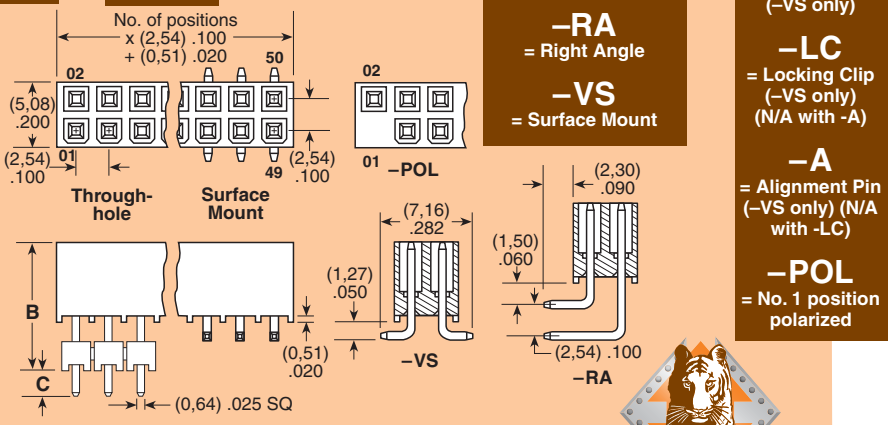
–K = (6,00mm) .236" DIA Polyimide film Pick & Place Pad (–VS only)

–LC = Locking Clip (–VS only) (N/A with -A)

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

–POL = No. 1 position polarized

LEAD STYLE	A	B	C
–01	(11,05) .435	(5,84) .250	(2,16) .085
-01-VS	(13,59) .535	(5,84) .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



RUGGEDIZED by SAMTEC

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

Mates with: IPT1

05, 10, 15, 20, 25 (Call Samtec for other sizes)

–S = 30µ" (0,76µm) Gold on contact, Matte Tin on Tail

Leave blank for Through-hole

–VS = Surface Mount

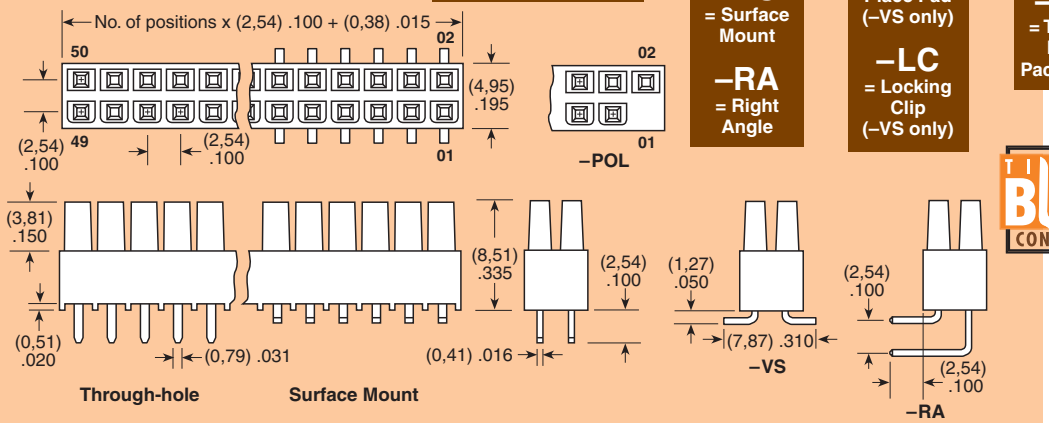
–RA = Right Angle

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

–LC = Locking Clip (–VS only)

–POL = No. 1 position polarized

–TR = Tape & Reel Packaging



TIGER BUY CONTACT

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

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