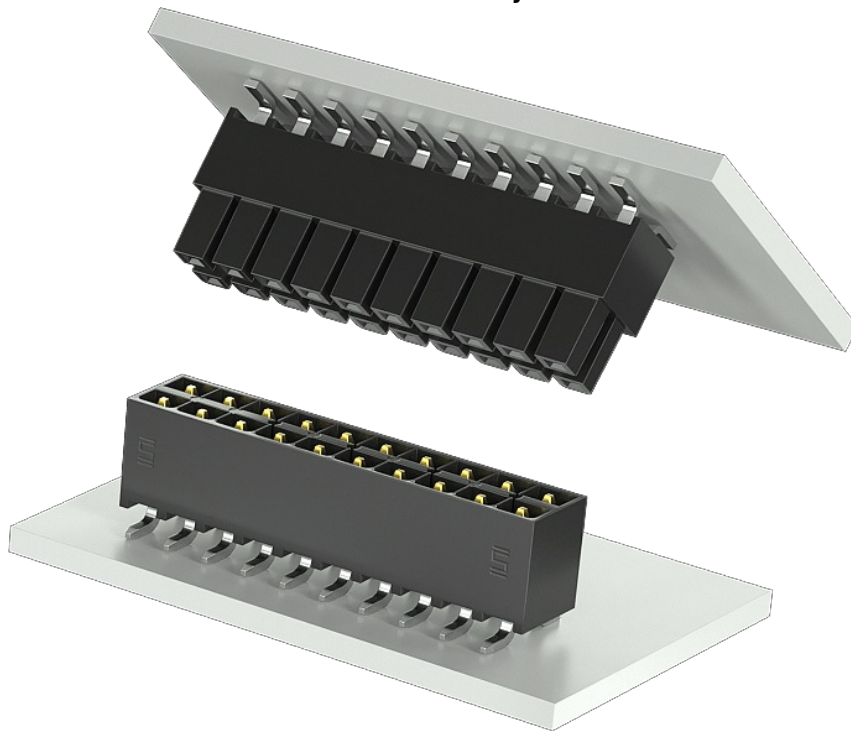


# SAMTEC IPT1-IPS1 Flexible Power Systems Owner's Manual

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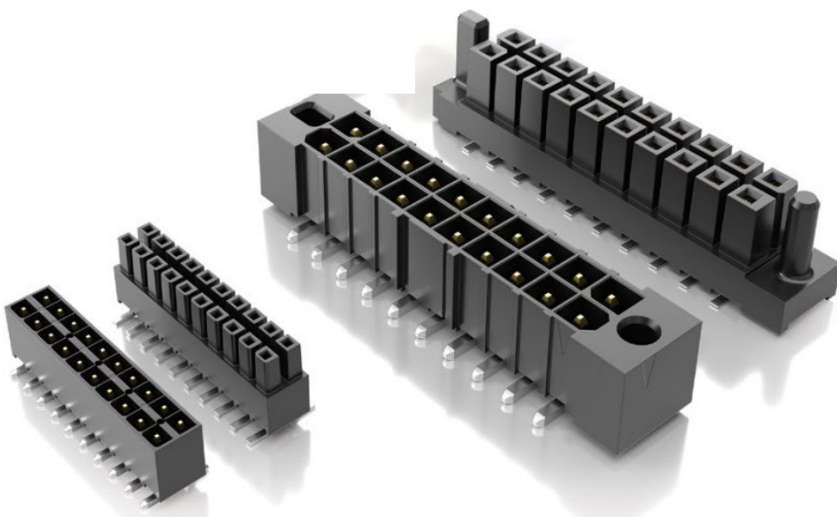
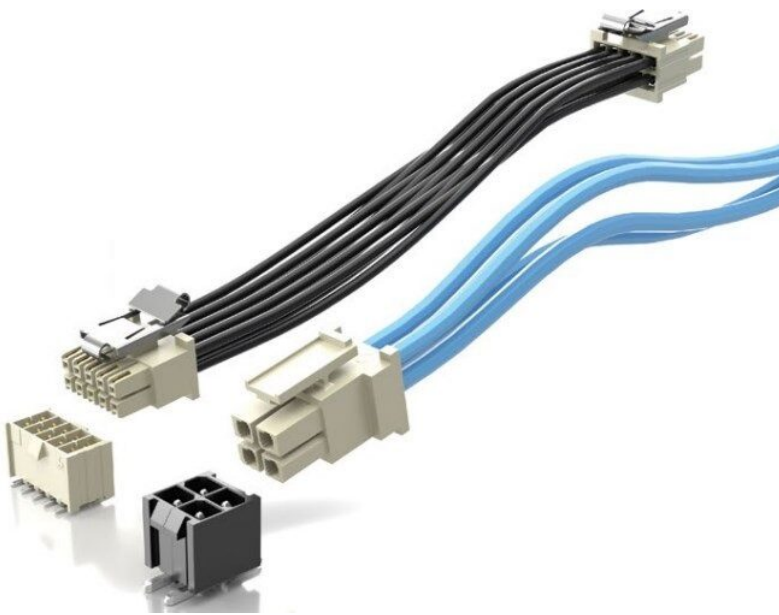
## SAMTEC IPT1-IPS1 Flexible Power Systems Owner's Manual



### Contents

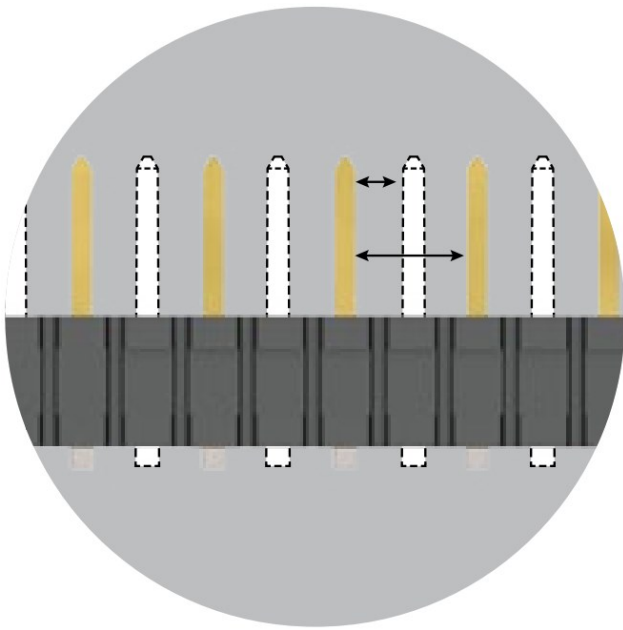
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## FEATURES & BENEFITS



- Board-to-board and discrete wire cable systems
- Power Mate® system with polarized guide posts
- Mini Mate® system with reliable Tiger Buy™ contacts
- Individually shrouded contacts
- Elevated stack heights
- Optional polarization
- Vertical and right-angle for parallel, perpendicular and coplanar applications
- Rugged metal or plastic latching systems
- Cable components and tooling available

Selectively loading contacts achieves customer specific creepage and clearance requirements.



### KEY SPECIFICATIONS

| SERIES        | IPT1/IPS1         | IPBT/IPBS                    | HPM/HPW/HPF     | FWJ/HFWJ/FHP    |
|---------------|-------------------|------------------------------|-----------------|-----------------|
| PITCH         | (2.54 mm) .100"   | (4.19 mm) .165"              | (5.08 mm) .200" | (3.96 mm) .156" |
| CCC (1 PIN)*  | 5.9 A             | 10.3 A /pin (2 pins powered) | 16.6 A          | 13.1 A          |
| CCC (2 PINS)* | 4.8 A             | 8.4 A /pin (4 pins powered)  | 14.4 A          | 11.2 A          |
| CCC (3 PINS)* | 4.1 A             | 7.6 A /pin (6 pins powered)  | 13.2 A          | 10.3 A          |
| CREEPAGE      | (2.54 mm) .100"   | (4.27 mm) .168"              | (3.94 mm) .155" | (3.92 mm) .154" |
| CLEARANCE     | (1.91 mm) .075"   | (3.05 mm) .120"              | (3.94 mm) .155" | (2.82 mm) .111" |
| VAC           | 775               | 400                          | 850             | 600             |
| VDC           | 1095              | 565                          | 1200            | 845             |
| CYCLES        | 1000 (MFG Tested) | 100                          | 100             | 100             |

### IPT1

### NO. PINS PER ROW

- 05
- 10
- 15
- 20
- 25
- (Standard Sizes)

## LEAD STYLE

Specify **LEAD STYLE** from chart

## PLATING OPTION

–L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on ta

Requires -01

Lead Style (Leave blank for Through-hole)

**D**

## TAIL OPTION

- Requires -01 Lead Style (Leave blank for Through-hole)
- –RA = Right-angle
- –VS = Surface Mount

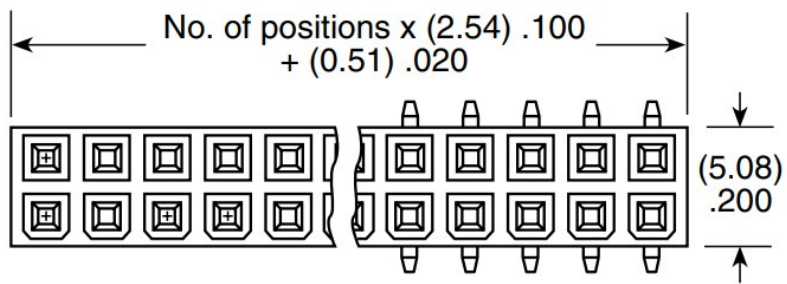
## OTHER OPTIONS

- –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 (–VS only)
- –FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-VS only)

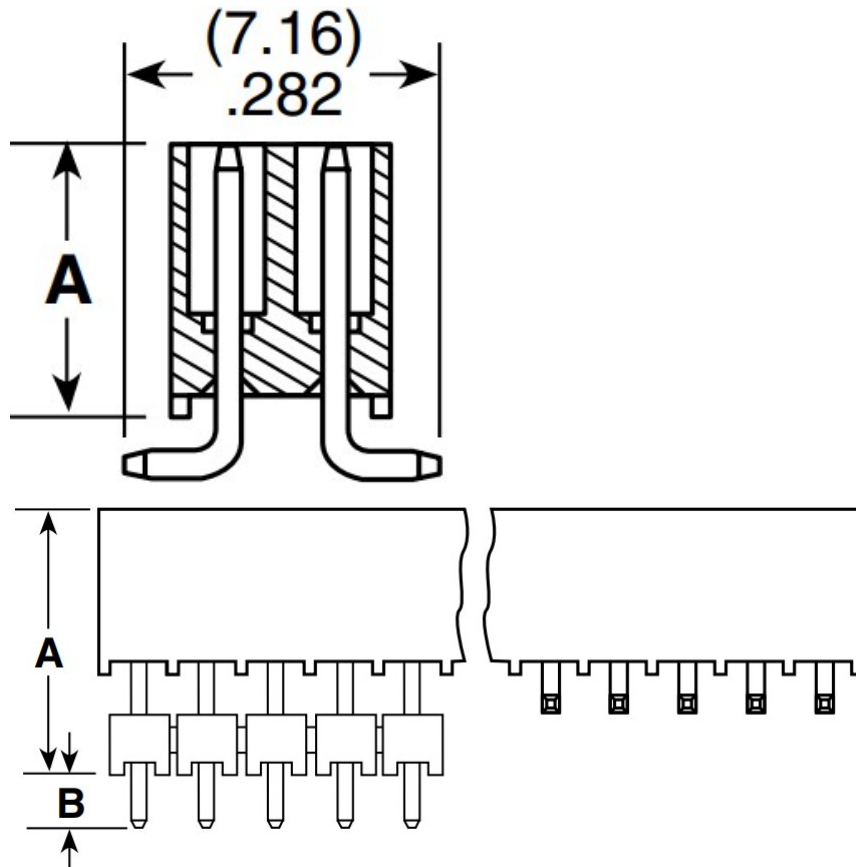
## IPT1 Board Mates: IPS1



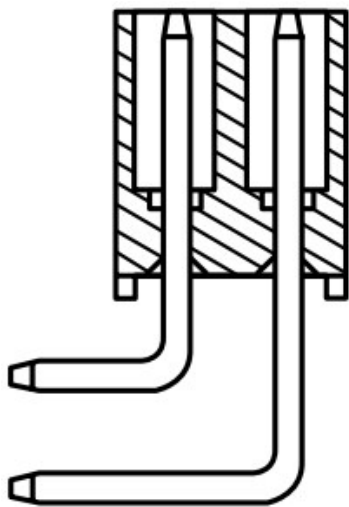
## Through-hole Surface Mount



-VS



-RA



| LEA 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 |

## IPS1

1

## NO. PINS PER ROW

- 05
- 10
- 15
- 20
- 25
- (Standard Sizes)

01

## PLATING OPTION

- –L = 10  $\mu$ " (0.25  $\mu$ m) Gold on contact, Matte Tin on tail

D

## TAIL OPTION

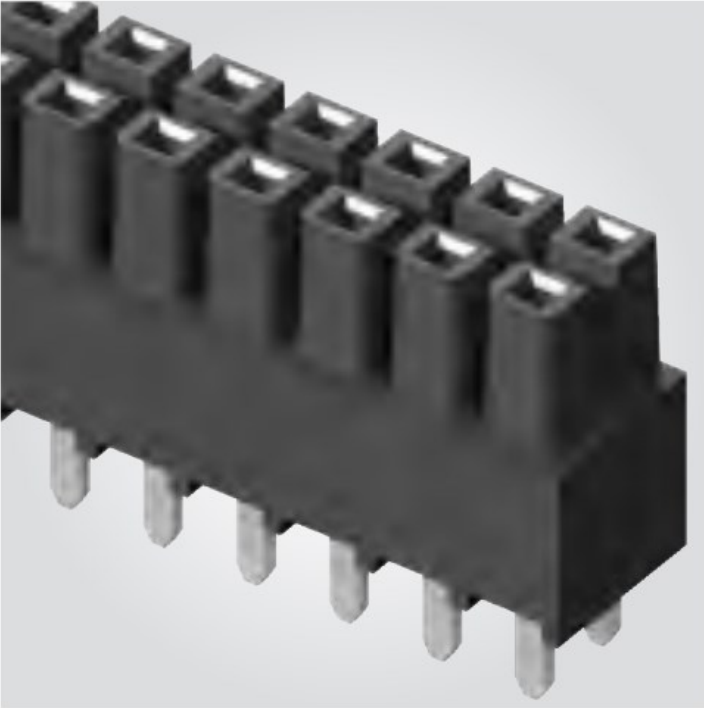
- Leave blank for Through-hole
  - RA = Right-angle
- –VS = Surface Mount

## OTHER OPTIONS

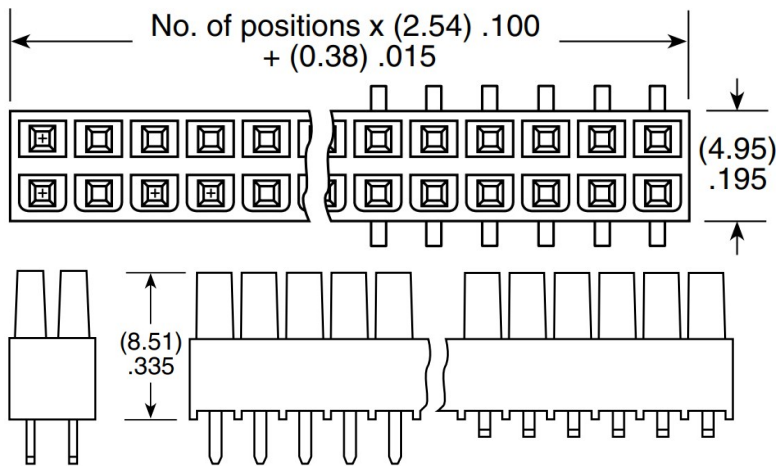
- –LC = Locking Clip (Manual placement required) (–VS only)

- **-K** = (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (-VS only)
- **-TR** = Tape & Reel (-VS only)
- **-FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-VS only)

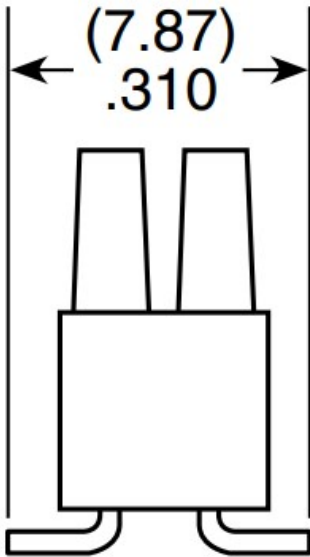
#### IPS1 Board Mates: IPT1



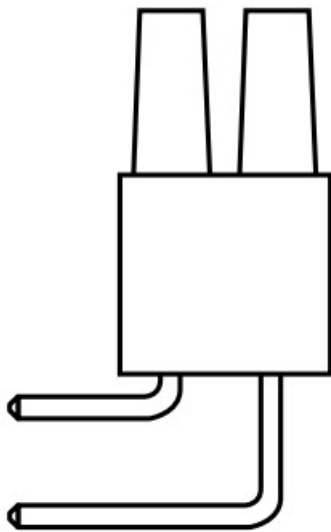
#### Through-hole Surface Mount



**-VS**



-RA



**Note:**

Some lengths, styles and options are non-standard, non-returnable

View complete specifications at: [samtec.com?IPT1](http://samtec.com?IPT1) & [samtec.com?IPS1](http://samtec.com?IPS1)

[samtec.com/minimate](http://samtec.com/minimate)

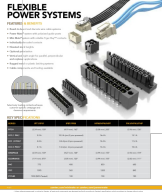
Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

Downloaded from [Arrow.com](http://Arrow.com).



**Documents / Resources**





[SAMTEC IPT1-IPS1 Flexible Power Systems](#) [pdf] Owner's Manual  
IPT1-IPS1 Flexible Power Systems, IPT1-IPS1, Flexible Power Systems, Power Systems

## References

- [S Connectors, Cables, Optics, RF, Silicon to Silicon Solutions | Samtec](#)
- [S .100 Discrete Wire, Mini Mate® Sockets, Terminals, and Assemblies | Samtec](#)

Manuals+,