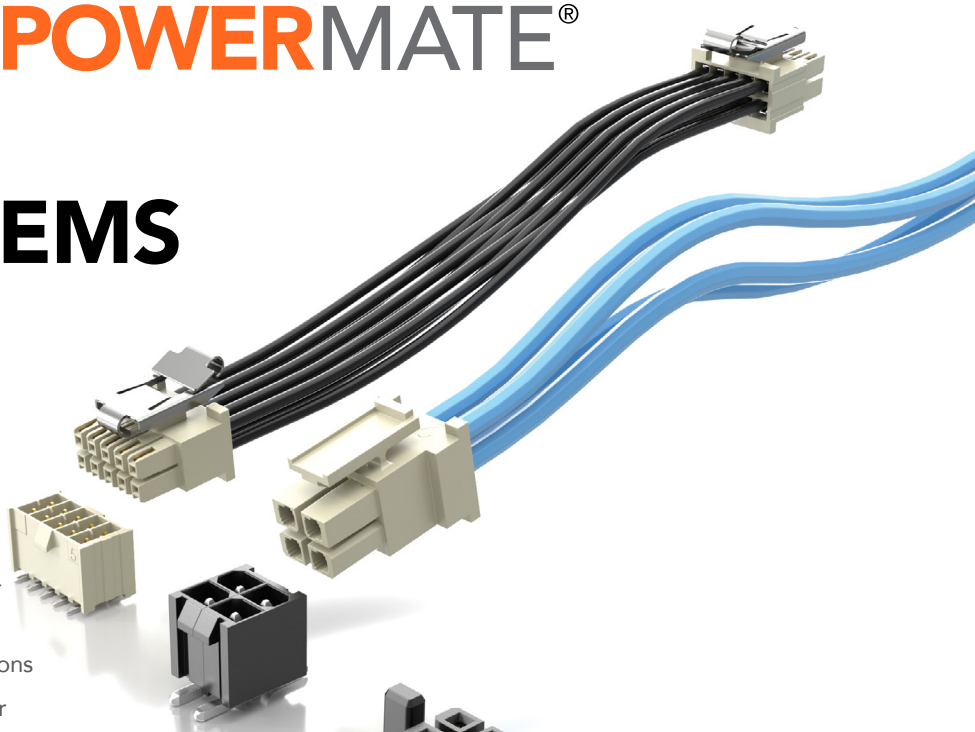
miniMATE® | POWERMATE®

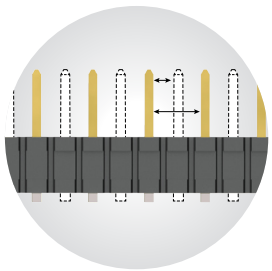
ISOLATED POWER SYSTEMS



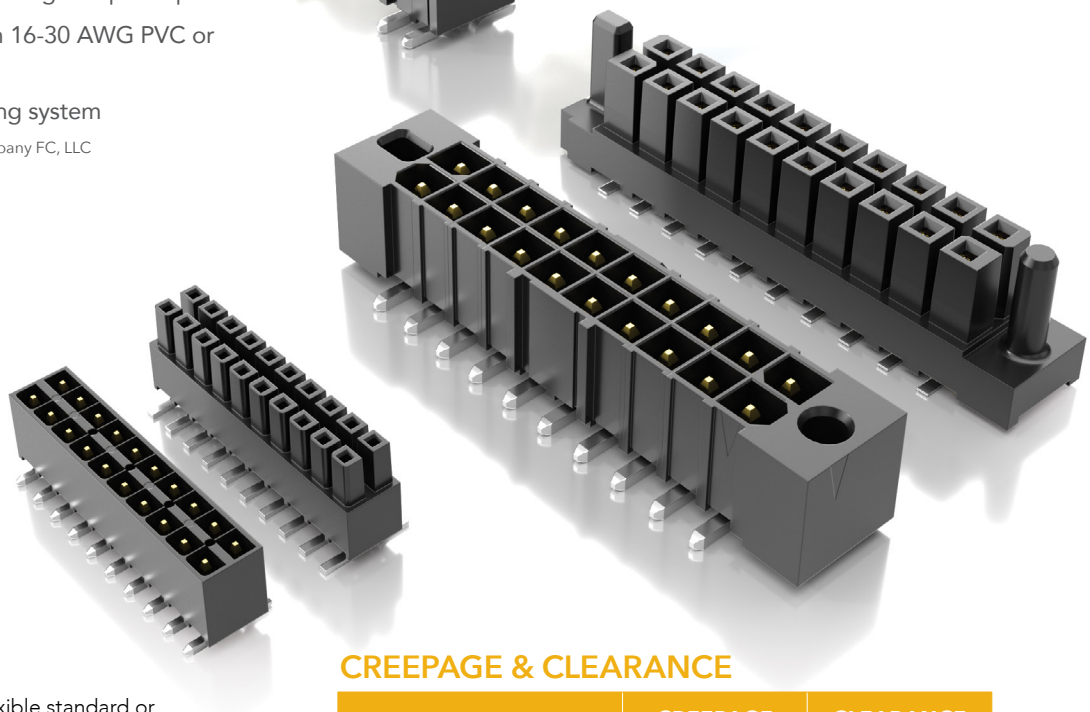
FEATURES & BENEFITS

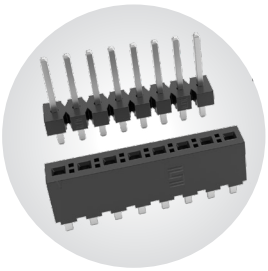
- Individually shrouded contacts for electrical and mechanical protection
- .100" (2.54 mm) and .165" (4.19 mm) pitch
- Surface mount or through-hole
- Vertical and right-angle for parallel, perpendicular and coplanar applications
- Locking clip, key polarization and guide post options
- Wire to board assemblies with 16-30 AWG PVC or Teflon™ fluoropolymer wire.
- Metal or plastic rugged latching system

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec



Selectively loading contacts achieves customer specific creepage and clearance requrements.





Flexible standard or high-power stacking systems with Power Eye three-finger BeCu contacts for reliable connection. For available series, visit samtec.com/flexiblestrips

CREEPAGE & CLEARANCE

	CREEPAGE	CLEARANCE
IPT1/IPS1 MMSS(T)/MMSD(T)/IPL1	2.54 mm	1.91 mm
IPBT/IPBS PMSS(T)/PMSD(T)	4.27 mm	3.05 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

KEY SPECIFICATIONS

SERIES	PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
IPT1/IPS1	.100" (2.54 mm)	Black LCP	Phosphor Bronze	Sn or Au over 50 µ" (1.27 µm) Nickel	-55 °C to +125 °C	5.9 A (2 pins powerd)	700 VAC/ 990 VDC	Yes
IPBT/IPBS	.165" (4.19 mm)	Black LCP	High Copper Alloy (IPBT) Phospher Bronze (IPBS)	Sn over 50 µ" (1.27 µm) Nickel	-55 °C to +105 °C	9.3 A (2 pins powerd)	400 VAC/ 566 VDC	Yes

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.

miniMATE®

MAX 5.9 Amps

samtec

(2.54 mm) .100" PITCH • SHROUDED POWER CONNECTOR SET

IPT1	-	1	NO. PINS PER ROW	-	LEAD STYLE	-	PLATING OPTION	-	D	-	TAIL OPTION	-	OTHER OPTIONS

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 tail

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)

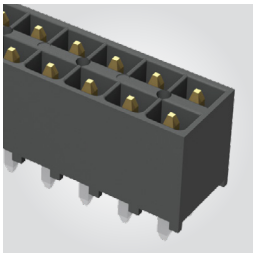
–LC
= Locking Clip (Manual placement required) (–VS only) (N/A with –A)

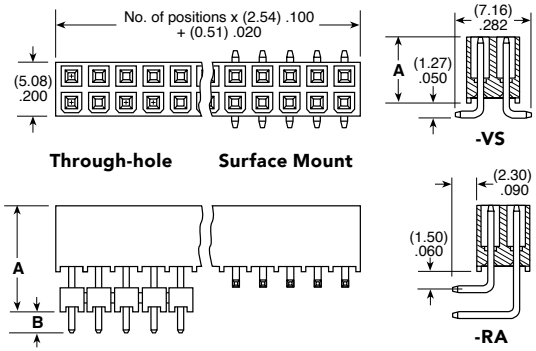
–K
= (6.00 mm) .236" DIA Polyimide film Pick & Place Pad (–VS only)

–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





IPT1/IPS1	
PINS	CURRENT RATING (PER CONTACT)
2	5.9 A
4	4.8 A
6	4.1 A
8	3.6 A
50	2.3 A

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

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

NO. PINS PER ROW
05
10
15
20
25
(Standard Sizes)

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

TAIL OPTION
Leave blank for Through-hole

–RA
= Right-angle

–VS
= Surface Mount

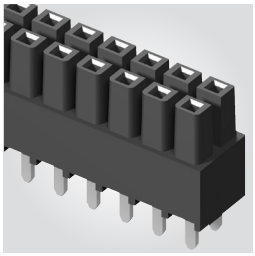
OTHER OPTIONS
–LC
= Locking Clip (Manual placement required) (–VS only)

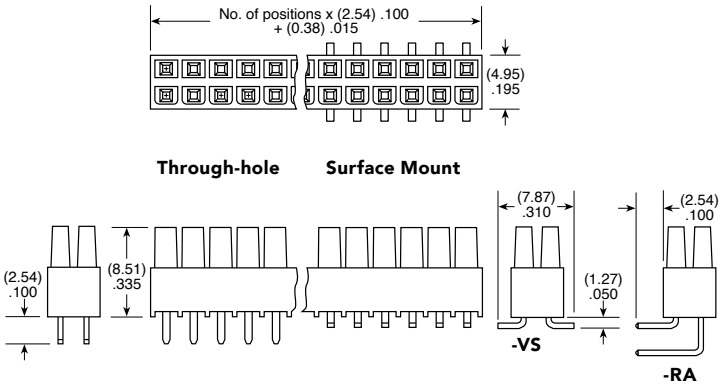
–K
= (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (–VS only)

–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





Note:
Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: **samtec.com?IPT1 & samtec.com?IPS1**

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