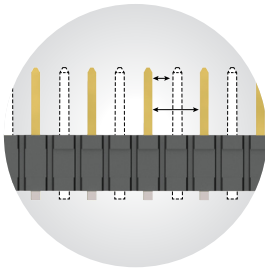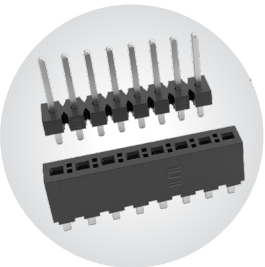# miniMATE® | POWERMATE®

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
- Discrete wire 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 requirements.

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

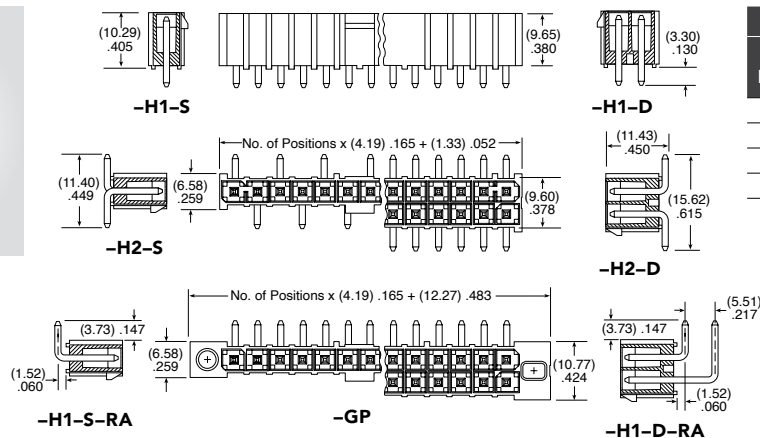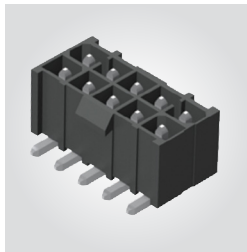Selectively loading contacts achieves customer specific creepage and clearance requirements.

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

POWER**MATE**®

(4.19 mm) .165" PITCH • ISOLATED POWER CONNECTOR SET

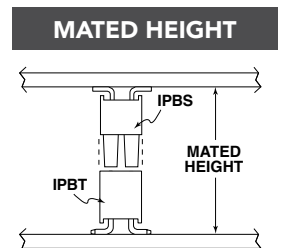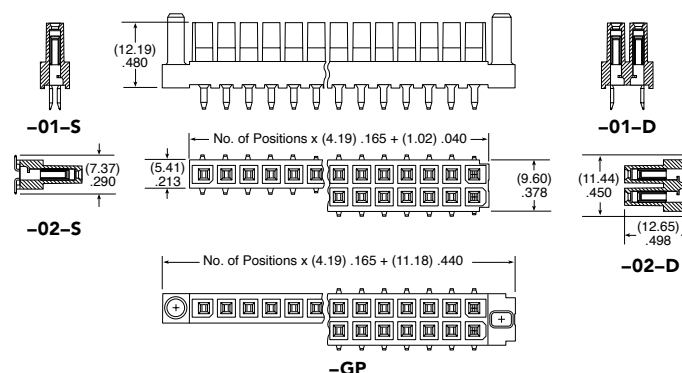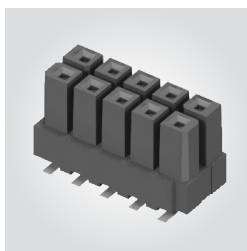| IPBT	1	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTIONS
		02, 03, 04, 05, 08, 10 **15** (–D Only) (Standard Sizes)	**–H1** = Through-hole **–H2** = Surface Mount	**–T** = Matte Tin	**–S** = Single Row **–D** = Double Row	**–RA** = Right-angle (Lead Style –H1 only) **–GP** = Guide Post Holes (Not available with –K) **–K** = Keyed Polarization (Not available with –GP option, is required callout if –GP not called out)

IPBT
Board Mates:
IPBS
Cable Mates:
PMSD, PMSS

(10.29) .405

(9.65) .380 **–H1–S**

(3.30) .130 **–H1–D**

(11.40) .449 (6.58) .259 **–H2–S**

No. of Positions x (4.19) .165 + (1.33) .052

(9.60) .378

(11.43) .450 (15.62) .615 **–H2–D**

(1.52) .060 (3.73) .147 (6.58) .259 **–H1–S–RA**

No. of Positions x (4.19) .165 + (12.27) .483 **–GP**

(10.77) .424

(3.73) .147 (5.51) .217 (1.52) .060 **–H1–D–RA**

IPBT/IPBS	
PINS POWERED	CURRENT RATING (PER CONTACT)
2	9.3 A
4	7.4 A
6	6.4 A
8	5.9 A
30	4.4 A

IPBS	1	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTION
		02, 03, 04, 05, 08, 10 **15** (–D Only) (Standard Sizes)	**–01** = Standard Power **–02** = Standard Power Surface Mount	**–T** = Matte Tin	**–S** = Single Row **–D** = Double Row	**–GP** = Guide Post

IPBS
Board Mates:
IPBT

(12.19) .480

–01–S

(7.37) .290 **–02–S**

(5.41) .213

No. of Positions x (4.19) .165 + (1.02) .040

(9.60) .378

–01–D

(11.44) .450 (12.65) .498 **–02–D**

No. of Positions x (4.19) .165 + (11.18) .440 **–GP**

MATED HEIGHT

IPBS
MATED HEIGHT
IPBT

IPBT/IPBS LEAD STYLE	MATED HEIGHT*
H1/–01	(15.25) .600
–H2/–02	(16.84) .663

*Processing conditions will affect mated height.

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

View complete specifications at: **samtec.com?IPBT & samtec.com?IPBS**

Mouser Electronics

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IPBT-104-H1-T-D IPBT-103-H1-T-D-RA IPBT-103-H1-T-S IPBT-105-H1-T-D IPBT-102-H1-T-S IPBT-102-H1-T-D-RA IPBT-105-H1-T-D-RA