

ULTRA RUGGED I/O SYSTEMS



FEATURES & BENEFITS

- Small form factor
- Four points of contact for a reliable connection and high mating cycles
- Up to 40 positions per row
- Cable-to-cable & cable-to-board solutions
- EMI shielding limits signal degradation and optimizes performance
- Through-hole or surface mount
- 28 & 30 AWG cable
- Availability of contacts (high-speed, RF, power) in 1 to 5 block configurations (See page 231)

MAX
3.8
A m p s



Extreme density with up to 1,450 total I/Os in a 1RU panel
(29 cables at 50 total I/Os each)

KEY SPECIFICATIONS

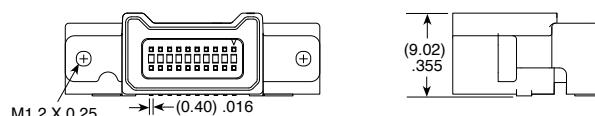
Series	Insulator Material	Contact Material	Shield Material	Plating	Operating Temp Range	Current Rating	Voltage Rating
P1PD(X), B1SD(X), P1M	Liquid Crystal Polymer	Beryllium Copper	Zinc Alloy	Au over 50 μ " (1.27 μ m) Ni	-10 °C to +80 °C (PVC) -40 °C to +125 °C (*Teflon™ Fluoropolymer)	3.8 A per pin (2 pins powered)	200 VAC/ 282 VDC
B1SM		Copper Alloy		50 μ " (1.27 μ m) Au center contact	Testing Now!	Testing Now!	Testing Now!
P1SM				30 μ " (0.76 μ m) Au center contact			

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

(1.00 mm) .0394" PITCH • I/O BOARD MOUNT

P1M	NO. OF POSITIONS	LEAD STYLE	PLATING	D	RA	PIN LENGTH	"X"R
	-10, -15, -25, -30 (Per Row)	-01 = Surface Mount	-S = 30 μ " (0.76 μ m) Gold on contact area, Matte Tin on tail			(Leave blank for standard)	
		-02 = Through-hole (1.57 mm PCB)	-H = Hot Swap				-TR = Tape & Reel
		-03 = Through-hole (2.36 mm PCB)	-STL = 30 μ " (0.76 μ m) Gold on contact area, Tin/Lead on tail (-01 lead style only)				-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

P1M
Cable Mates:
B1SD, B1SDT

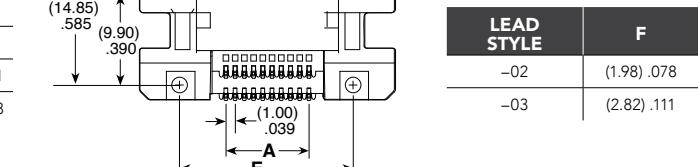


P1M-10-01-S-D-RA SHOWN
(SURFACE MOUNT)

NO. OF POSITIONS	A	B	C	D	E
-10	(9.00) .354	(15.39) .606	(23.75) .935	(27.75) 1.093	(18.80) .740
-15	(14.00) .551	(20.39) .803	(28.75) 1.132	(32.75) 1.289	(23.80) .937
-25	(24.00) .945	(30.39) 1.196	(38.75) 1.526	(42.75) 1.683	(33.80) 1.331
-30	(29.00) 1.142	(35.39) 1.393	(43.75) 1.722	(47.75) 1.880	(38.80) 1.528

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

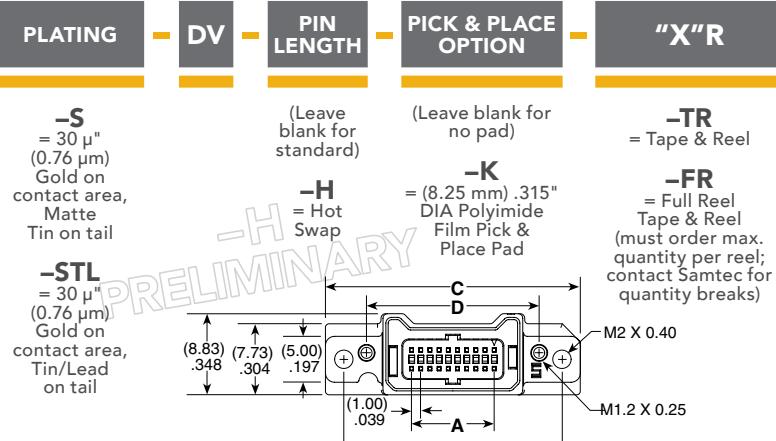
View complete specifications at: samtec.com?P1M



P1M-10-02-S-D-RA SHOWN
(THROUGH-HOLE)

LEAD STYLE	F
-02	(1.98) .078
-03	(2.82) .111

P1M
Cable Mates:
B1SD, B1SDT



P1M-10-01-S-DV SHOWN

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

View complete specifications at: samtec.com?P1M

NO. OF POSITIONS	A	B	C	D	E
-10	(9.00) .354	(23.75) .935	(27.75) 1.093	(18.80) .740	(15.22) .599
-15	(14.00) .551	(28.75) 1.132	(32.75) 1.289	(23.80) .937	(20.22) .796
-25	(24.00) .945	(38.75) 1.526	(42.75) 1.683	(33.80) 1.331	(30.22) 1.190
-30	(29.00) 1.142	(43.75) 1.722	(47.75) 1.880	(38.80) 1.528	(35.22) 1.387