URSA™ I/O
ULTRA RUGGED CONTACT SYSTEM

ULTRA RUGGED I/O SYSTEMS

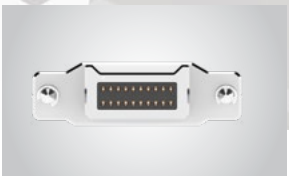
(1.00 mm) .0394" PITCH



MAX 2.9 Amps

FEATURES & BENEFITS

- Small form factor
- Four points of contact for an extremely reliable connection
- Up to 40 positions per row
- Cable-to-cable & cable-to-board solutions
- EMI shielding in development to reduce noise generated and protect sensitive lines
- Through-hole or surface mount
- 28 & 30 AWG cable



Shown actual size
at 20 total positions



Hyperboloid-type contact for
extreme high mating cycles



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

KEY SPECIFICATIONS (P1PD(X), B1SD(X) & P1M)

PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	SHIELD MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING
1.00 mm	Liquid Crystal Polymer	Beryllium Copper	Zinc Alloy	Au over 50 µ" (1.27 µm) Ni	–10 °C to +80 °C (PVC) –40 °C to +125 °C (*Teflon®)	2.9 A per pin (2 pins powered)	253 VAC

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URSA I/O
ULTRA RUGGED CONTACT SYSTEM

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

–02
= Through-hole (1.57 mm PCB)

–03
= Through-hole (2.36 mm PCB)

–S
= 30 µ" (0.76 µm) Gold on contact area, Matte Tin on tail

–STL
= 30 µ" (0.76 µm) Gold on contact area, Tin/Lead on tail

(Leave blank for standard)

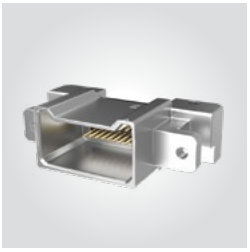
–H
= Hot Swap

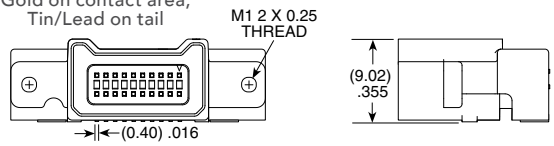
–TR
= Tape & Reel

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

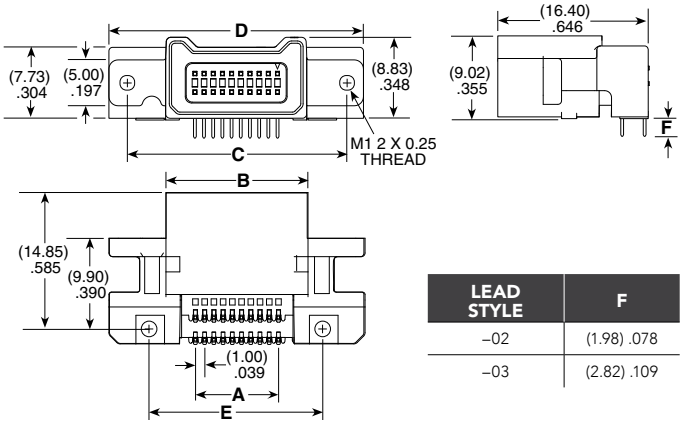
PRELIMINARY

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) 0.551	(20.39) .803	(28.75) 1.132	(32.75) 1.289	(23.80) .9379
–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

LEAD STYLE	F
–02	(1.98) .078
–03	(2.82) .109

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

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

View complete specifications at: **samtec.com?P1M**

P1M	–	NO. OF POSITIONS	–	LEAD STYLE	–	PLATING	–	DV	–	PIN LENGTH	–	PICK & PLACE OPTION	–	"X"R

–10, –15, –25, –30
(Per Row)

–01
= Surface Mount

–02
= Through-hole (1.57 mm PCB)

–03
= Through-hole (2.36 mm PCB)

–S
= 30 µ" (0.76 µm) Gold on contact area, Matte Tin on tail

–STL
= 30 µ" (0.76 µm) Gold on contact area, Tin/Lead on tail

(Leave blank for standard)

–H
= Hot Swap

(Leave blank for no pad)

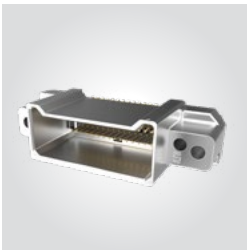
–K
= (8.25 mm) .315" DIA Polyimide Film Pick & Place Pad

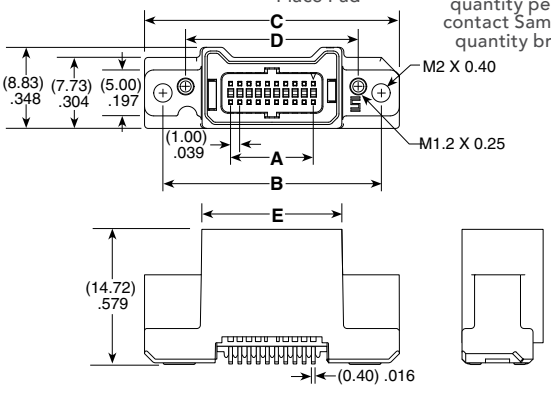
–TR
= Tape & Reel

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

PRELIMINARY

P1M
Cable Mates:
B1SD, B1SDT





P1M-10-01-S-DV SHOWN

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) 0.551	(28.75) 1.132	(32.75) 1.289	(23.80) .9379	(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

Note:
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