mPOWER®

ULTRA MICRO POWER SYSTEM

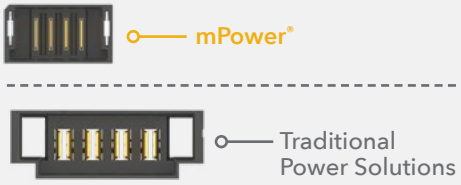
(2.00 mm) .0787" PITCH

FEATURES & BENEFITS

- Up to 18 A per blade (1 blade powered)
- Design flexibility as a power-only system or a two-piece system for power/signal applications
- Use with Samtec's high-speed connector systems for a unique power/signal system (see chart page 197)
- Choice of 2 to 10 positions
- 5 mm to 12 mm stack heights available (up to 20 mm in development)
- Tin or 10 µ" Gold plated power blades; 30 µ" Gold plating available to meet specific regulations
- Optional weld tabs
- Cable-to-board and cable-to-cable systems in development

UMPT/UMPS compared to another small form factor power solution

Terminals shown actual size at 4 positions



CREEPAGE & CLEARANCE

UMPT/UMPS	
CREEPAGE	2.20 mm
CLEARANCE	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

KEY SPECIFICATIONS

PITCH	STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	VOLTAGE RATING	LEAD-FREE SOLDERABLE
2.00 mm	5, 6, 7, 8 and 10 mm	Black LCP	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C with Tin -55 °C to +125 °C with Gold	460 VAC/ 650 VDC	Yes

25-08225 - UMPT-04-06.5-L-V-S-W-TR

mPOWER®

MAX 18 Amps

ULTRA MICRO POWER TERMINAL

UMPT	–	NO. OF POSITIONS	–	LEAD STYLE	–	PLATING OPTION	–	V	–	S	–	WELD TAB	–	LATCH OPTION	–	"X"R

–02, –03, –04, –05, –06, –07, –08, –09, –10

–01.5
= (01.5 mm) .059"

–02.5
= (02.5 mm) .098"

–06.5
= (06.5 mm) .256"

– 07.5
= (07.5 mm) .295"

– 12.5
= (12.5 mm) .492"

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

–S
= 30 µ" (0.76 µm) Gold on contact, Gold flash on tail

–T
= Matte Tin

(Leave blank for no weld tab)

–W
= Weld Tab Through-hole

(Leave blank for no latch)
(Only available on –02.5 lead style)
(Weld tab required)

–P
= Plastic top latch

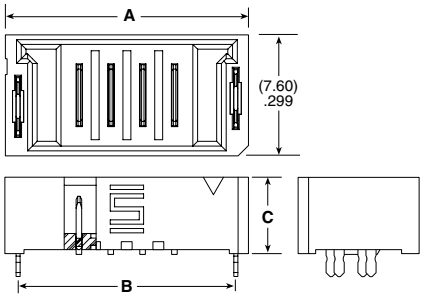
–M
= Metal side latches

–TR
= Tape & Reel

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

UMPT

Board Mates:
UMPS
Cable Mates:
UMPC*
(*UMPT requires -P or -M option for mating)



UMPT-04-01.5-X-V-S-W SHOWN

LEAD STYLE	C
–01.5	(4.80) .189
–02.5	(5.80) .228
–06.5	(9.55) .376
–07.5	(10.80) .425
–12.5	(15.80) .622

NO. OF POSITIONS	A (–P & No latch)	B (–P & No latch)	A (–M latch)	B (–M latch)
–02	(11.30) .445	(9.70) .382	(13.30) .524	(11.60) .457
–03	(13.30) .524	(11.70) .460	(15.30) .602	(13.60) .535
–04	(15.30) .602	(13.70) .539	(17.30) .681	(15.60) .614
–05	(17.30) .681	(15.70) .618	(19.30) .760	(17.60) .693
–06	(19.30) .760	(17.70) .697	(21.30) .839	(19.60) .772
–07	(21.30) .839	(19.70) .776	(23.30) .917	(21.60) .850
–08	(23.30) .917	(21.70) .854	(25.30) .996	(23.60) .929
–09	(25.30) .996	(23.70) .933	(27.30) 1.075	(25.60) 1.007
–10	(27.30) 1.075	(25.70) 1.012	(29.30) 1.154	(27.60) 1.087

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

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

UMPT	–	NO. OF POSITIONS	–	01	–	PLATING OPTION	–	RA	–	WELD TAB	–	LATCH OPTION	–	"X"R

–02, –03, –04, –05, –06, –07, –08, –09, –10

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

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

–T
= Matte Tin

–WT
= Weld Tab Through-hole

(Leave blank for no latch)

–P
= Plastic top latch

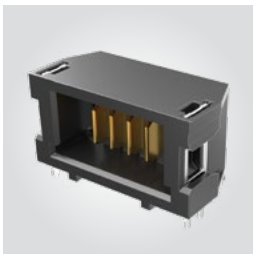
–M
= Metal side latches

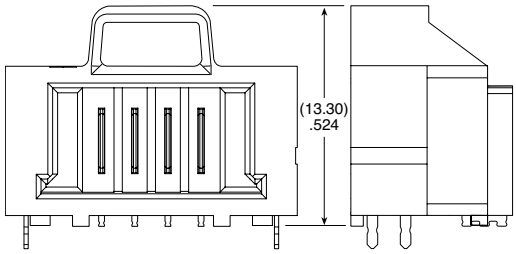
–TR
= Tape & Reel

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

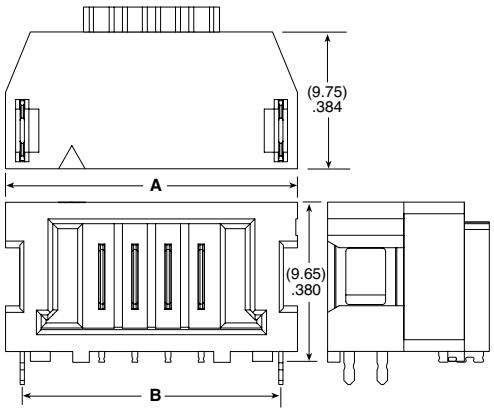
UMPT-RA

Board Mates:
UMPS
Cable Mates:
UMPC*
(*UMPT requires -P or -M option for mating)





UMPT-04-01-X-RA-WT-P SHOWN



UMPT-04-01-X-RA-WT-M SHOWN

NO. OF POSITIONS	A	B (–P & No latch)	B (–M latch)
–02	(13.60) .535	(11.10) .437	(11.55) .455
–03	(15.60) .614	(13.10) .516	(13.55) .533
–04	(17.60) .693	(15.10) .594	(15.55) .612
–05	(19.60) .772	(17.10) .673	(17.55) .691
–06	(21.60) .850	(19.10) .752	(19.55) .770
–07	(23.60) .929	(21.10) .831	(21.55) .848
–08	(25.60) 1.008	(23.10) .909	(23.55) .927
–09	(27.60) 1.087	(25.10) .988	(25.55) 1.006
–10	(29.60) 1.165	(27.10) 1.067	(27.55) 1.085

Note:
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View complete specifications at: **samtec.com?UMPT-RA**