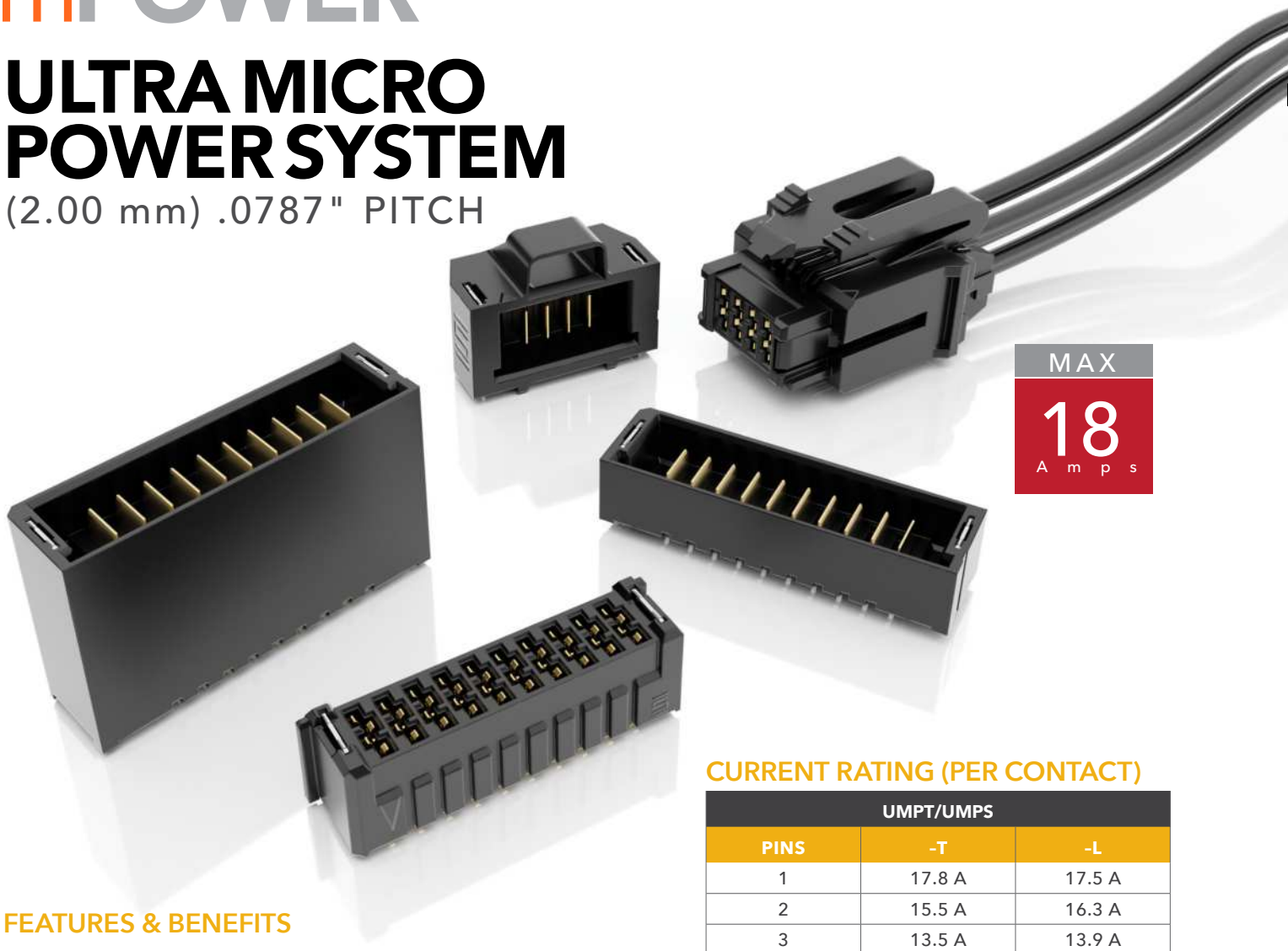
mPOWER®

ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



MAX 18 Amps

FEATURES & BENEFITS

- Board-to-board, cable-to-board and cable-to-cable
- Up to 18 A per blade (1 blade powered)
- Choice of 2 to 10 positions
- 5 mm to 20 mm stack heights; vertical and right-angle orientations
- Tin or 10 µ" Gold plated power blades; 30 µ" Gold plating available to meet specific regulations
- Optional weld tabs
- Mating cable assemblies with plastic top or metal side latching
- Severe Environment Testing qualified (UMPT/UMPS); aligns with MIL-DTL-55302. Visit samtec.com/set

CURRENT RATING (PER CONTACT)

UMPT/UMPS		
PINS	-T	-L
1	17.8 A	17.5 A
2	15.5 A	16.3 A
3	13.5 A	13.9 A
4	12.9 A	13.2 A
10	9.8 A	8.9 A

Ratings are derated 20% with 30 °C rise to maximum allowable temperature.

CREEPAGE & CLEARANCE

UMPT/UMPS	
CREEPAGE	2.20 mm
CLEARANCE	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

KEY SPECIFICATIONS (UMPT/UMPS)

STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	VOLTAGE RATING	LEAD-FREE SOLDERABLE
5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20 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/ 651 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.

mPOWER®

MAX 18 Amps

ULTRA MICRO POWER TERMINAL

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

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

–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"
(–W option required)

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

–G
10 µ" (0.25 µm) Gold on contact, Gold flash on tail

–T
= Matte Tin

–S
= Surface Mount

–1
= Through-hole for (1.60 mm) .062" PCB

–2
= Through-hole for (2.36 mm) .093" PCB

(Leave blank for no weld tab)

–W
= Weld Tab Through-hole (Required for –12.5 lead style)

–S
= Surface Mount Weld Tab

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

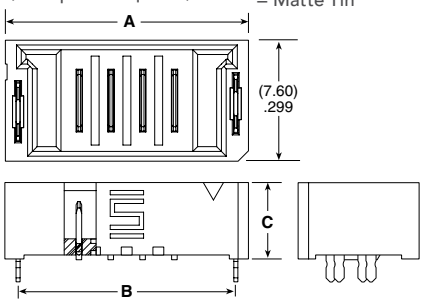
–P
= Plastic top latch

–M
= Metal side latches

–TR
= Tape & Reel

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

PS WELD TA
PRELIMINAR



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) .603	(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) 1.008
–10	(27.30) 1.075	(25.70) 1.012	(29.30) 1.154	(27.60) 1.087

Notes:
Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

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

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

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

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

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



–01
= Surface Mount

–02
= Through-hole for (1.60 mm) .062" PCB

–03
= Through-hole for (2.36 mm) .093" PCB

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

–T
= Matte Tin

–WT
= Weld Tab Through-hole

–WS
= Weld Tab Surface Mount (-01 only)

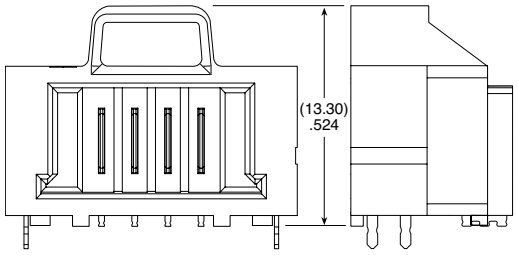
(Leave blank for no latch)

–P
= Plastic top latch

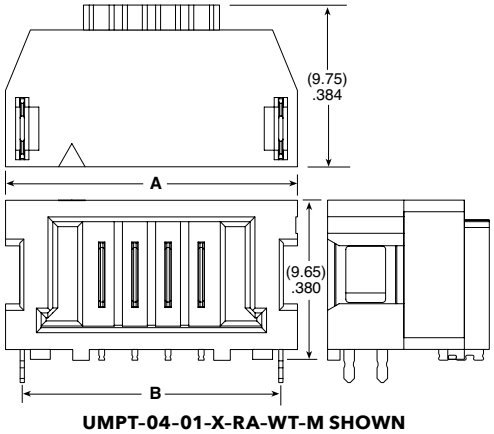
–M
= Metal side latches

–TR
= Tape & Reel

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



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

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

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