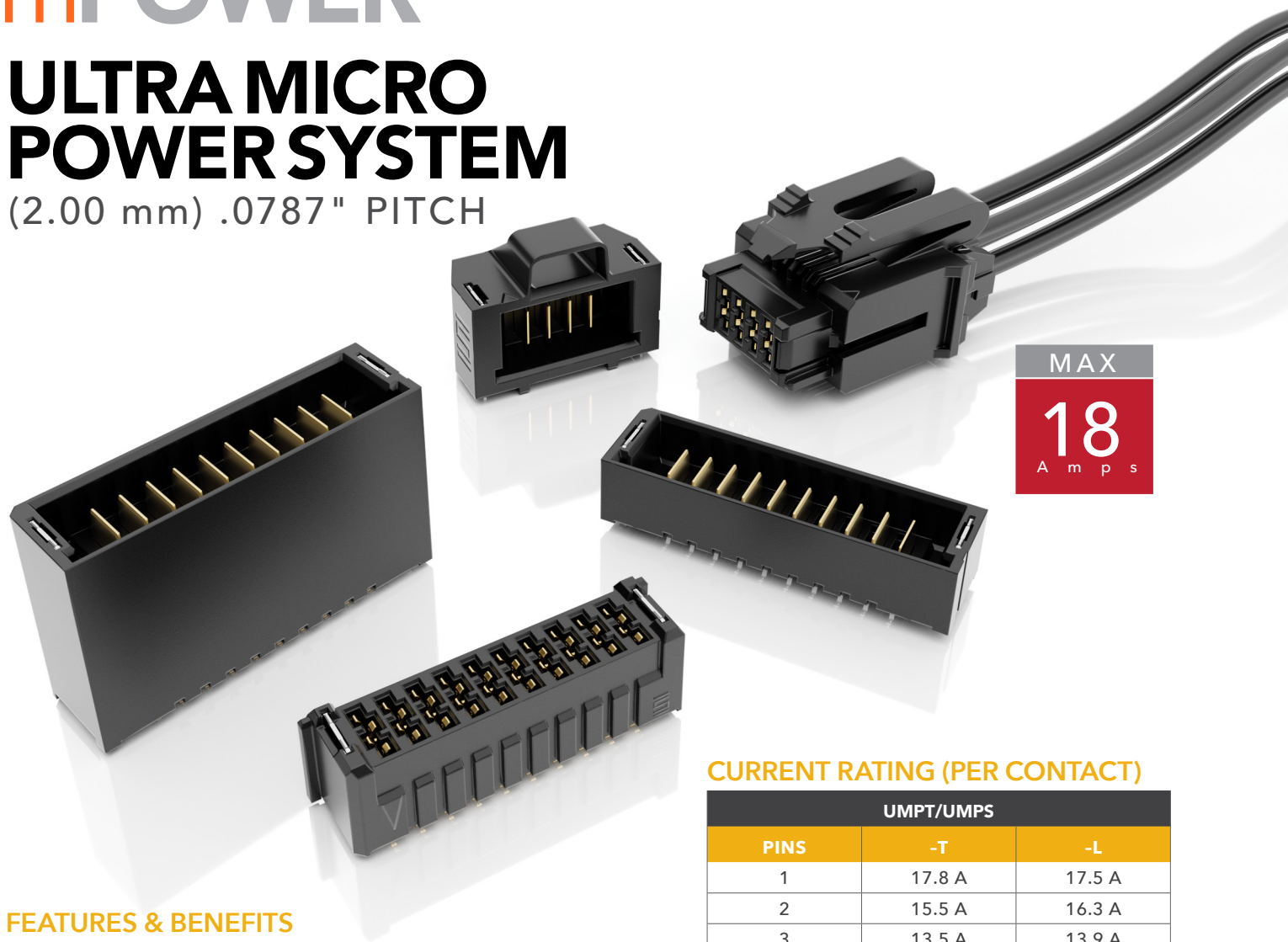


mPOWER®

ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



MAX

18
A m p s

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

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 μ m) Ni	-55 °C to +105 °C with Tin -55 °C to +125 °C with Gold	460 VAC/ 651 VDC	Yes

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

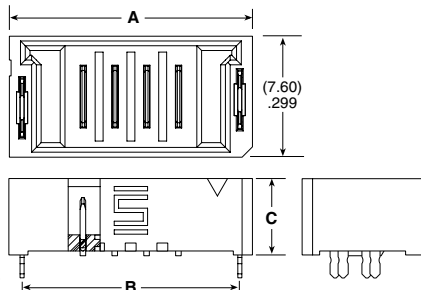
Ratings are derated 20% with 30 °C rise to maximum allowable temperature.

CREEPAGE & CLEARANCE

UMPT/UMPS	
CREEPAGE	2.20 mm
CLEARANCE	1.65 mm

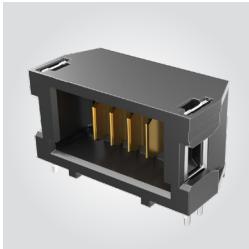
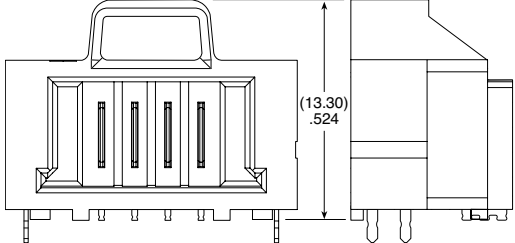
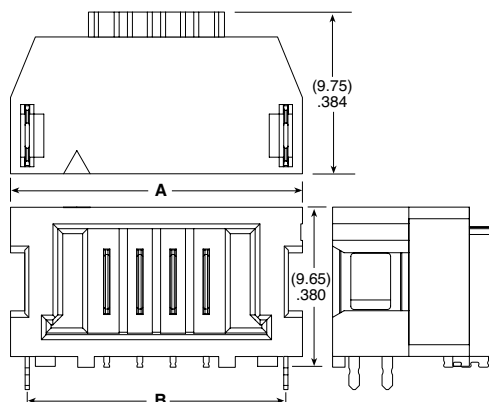
Selectively loading contacts achieves customer specific creepage and clearance requirements.

ULTRA MICRO POWER TERMINAL

UMPT	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	V	S	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			(Leave blank for no weld tab) -W = Weld Tab Through-hole (Required for -12.5 lead style)	(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)																																																																													
																																																																																					
Notes: Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set																																																																																					
																																																																																					
UMPT-04-01.5-X-V-S-W SHOWN																																																																																					
			<table><tr><th>LEAD STYLE</th><th>C</th><th>NO. OF POSITIONS</th><th>A</th><th>B</th><th>A</th><th>B</th></tr><tr><td></td><td></td><td></td><td>(-P & No latch)</td><td></td><td>(-M latch)</td><td></td></tr><tr><td>-01.5</td><td>(4.80) .189</td><td>-02</td><td>(11.30) .445</td><td>(9.70) .382</td><td>(13.30) .524</td><td>(11.60) .457</td></tr><tr><td>-02.5</td><td>(5.80) .228</td><td>-03</td><td>(13.30) .524</td><td>(11.70) .460</td><td>(15.30) .602</td><td>(13.60) .535</td></tr><tr><td>-06.5</td><td>(9.55) .376</td><td>-04</td><td>(15.30) .603</td><td>(13.70) .539</td><td>(17.30) .681</td><td>(15.60) .614</td></tr><tr><td>-07.5</td><td>(10.80) .425</td><td>-05</td><td>(17.30) .681</td><td>(15.70) .618</td><td>(19.30) .760</td><td>(17.60) .693</td></tr><tr><td>-12.5</td><td>(15.80) .622</td><td>-06</td><td>(19.30) .760</td><td>(17.70) .697</td><td>(21.30) .839</td><td>(19.60) .772</td></tr><tr><td></td><td></td><td>-07</td><td>(21.30) .839</td><td>(19.70) .776</td><td>(23.30) .917</td><td>(21.60) .850</td></tr><tr><td></td><td></td><td>-08</td><td>(23.30) .917</td><td>(21.70) .854</td><td>(25.30) .996</td><td>(23.60) .929</td></tr><tr><td></td><td></td><td>-09</td><td>(25.30) .996</td><td>(23.70) .933</td><td>(27.30) 1.075</td><td>(25.60) 1.008</td></tr><tr><td></td><td></td><td>-10</td><td>(27.30) 1.075</td><td>(25.70) 1.012</td><td>(29.30) 1.154</td><td>(27.60) 1.087</td></tr></table>						LEAD STYLE	C	NO. OF POSITIONS	A	B	A	B				(-P & No latch)		(-M latch)		-01.5	(4.80) .189	-02	(11.30) .445	(9.70) .382	(13.30) .524	(11.60) .457	-02.5	(5.80) .228	-03	(13.30) .524	(11.70) .460	(15.30) .602	(13.60) .535	-06.5	(9.55) .376	-04	(15.30) .603	(13.70) .539	(17.30) .681	(15.60) .614	-07.5	(10.80) .425	-05	(17.30) .681	(15.70) .618	(19.30) .760	(17.60) .693	-12.5	(15.80) .622	-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
LEAD STYLE	C	NO. OF POSITIONS	A	B	A	B																																																																															
			(-P & No latch)		(-M latch)																																																																																
-01.5	(4.80) .189	-02	(11.30) .445	(9.70) .382	(13.30) .524	(11.60) .457																																																																															
-02.5	(5.80) .228	-03	(13.30) .524	(11.70) .460	(15.30) .602	(13.60) .535																																																																															
-06.5	(9.55) .376	-04	(15.30) .603	(13.70) .539	(17.30) .681	(15.60) .614																																																																															
-07.5	(10.80) .425	-05	(17.30) .681	(15.70) .618	(19.30) .760	(17.60) .693																																																																															
-12.5	(15.80) .622	-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																																																																															

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 -G 10 μ" (0.25 μm) Gold on contact, Gold flash 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																																																	
<table><tr><th rowspan="2">NO. OF POSITIONS</th><th rowspan="2">A</th><th>B</th><th>B</th></tr><tr><th>(-P & No latch)</th><th>(-M latch)</th></tr><tr><td>-02</td><td>(13.60) .535</td><td>(11.10) .437</td><td>(11.55) .455</td></tr><tr><td>-03</td><td>(15.60) .614</td><td>(13.10) .516</td><td>(13.55) .533</td></tr><tr><td>-04</td><td>(17.60) .693</td><td>(15.10) .594</td><td>(15.55) .612</td></tr><tr><td>-05</td><td>(19.60) .772</td><td>(17.10) .673</td><td>(17.55) .691</td></tr><tr><td>-06</td><td>(21.60) .850</td><td>(19.10) .752</td><td>(19.55) .770</td></tr><tr><td>-07</td><td>(23.60) .929</td><td>(21.10) .831</td><td>(21.55) .848</td></tr><tr><td>-08</td><td>(25.60) 1.008</td><td>(23.10) .909</td><td>(23.55) .927</td></tr><tr><td>-09</td><td>(27.60) 1.087</td><td>(25.10) .988</td><td>(25.55) 1.006</td></tr><tr><td>-10</td><td>(29.60) 1.165</td><td>(27.10) 1.067</td><td>(27.55) 1.085</td></tr></table>								NO. OF POSITIONS	A	B	B	(-P & No latch)	(-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
NO. OF POSITIONS	A	B	B																																														
		(-P & No latch)	(-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																																																	