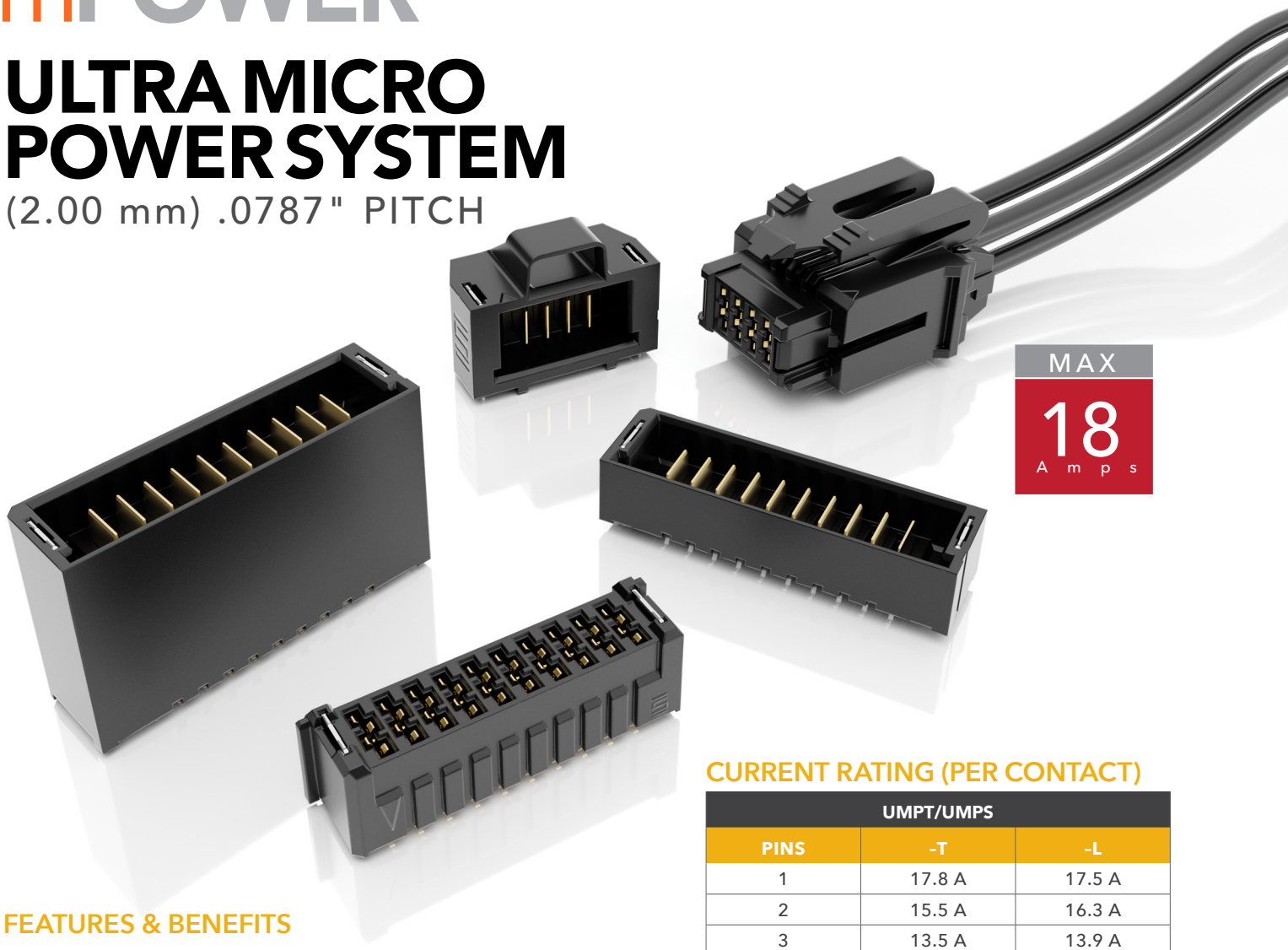
mPOWER®

ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



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.

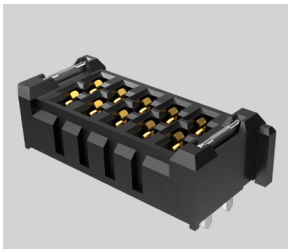
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MAX 18 Amps

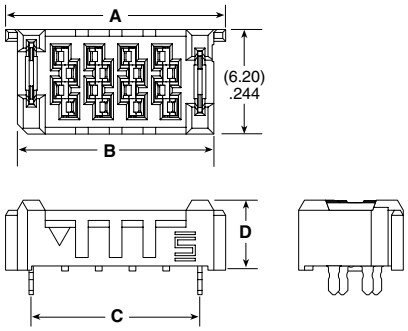
ULTRA MICRO POWER SOCKET

UMPS	–	NO. OF POSITIONS	–	LEAD STYLE	–	PLATING OPTION	–	V	–	TAIL	–	WELD TAB	–	"X"R
		–02, –03, –04, –05, –06, –07, –08, –09, –10		–03.5 = (03.5 mm) .138" –05.5 = (05.5 mm) .217" –07.5 = (07.5 mm) .295"		–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		–W = Weld Tab Through-hole (Leave blank for no weld tab) –S = Surface Mount Weld Tab		–TR = Tape & Reel –FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

UMPS
Board Mates:
UMPT
Standoffs:
GPSO



–S WELD TAB PRELIMINARY



UMPS-04-03.5-X-V-S-W SHOWN

NO. OF POSITIONS	A	B	C
–02	(9.05) .356	(7.65) .301	(6.00) .236
–03	(11.05) .435	(9.65) .380	(8.00) .315
–04	(13.05) .514	(11.65) .459	(10.00) .394
–05	(15.05) .593	(13.65) .537	(12.00) .472
–06	(17.05) .671	(15.65) .616	(14.00) .551
–07	(19.05) .750	(17.65) .695	(16.00) .630
–08	(21.05) .829	(19.65) .774	(18.00) .709
–09	(23.05) .907	(21.65) .852	(20.00) .787
–10	(25.05) .986	(23.65) .931	(22.00) .866

LEAD STYLE	D
–03.5	(4.15) .163
–05.5	(6.15) .242
–07.5	(8.15) .321

UMPT LEAD STYLE	MATED HEIGHT		
	UMPS LEAD STYLE		
	–03.5	–05.5	–07.5
–01.5	(5.00) .197	(7.00) .276	(9.00) .354
–02.5	(6.00) .236	(8.00) .315	(10.00) .394
–06.5	(10.00) .394	(12.00) .472	(14.00) .551
–07.5	(11.00) .433	(13.00) .512	(15.00) .591
–12.5	(16.00) .630	(18.00) .709	(20.00) .787

UMPT/UMPS CURRENT RATING (PER CONTACT)

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.

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

Some lengths, styles and otpons are non-standard, non-returnable

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

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