

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

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 SOCKET

MAX
18
A m p s

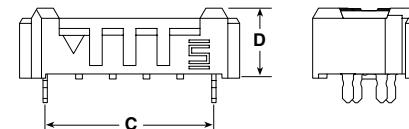
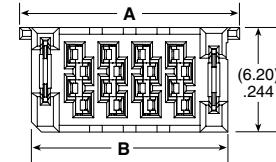
UMPS	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	V	TAIL	WELD TAB	"X"R
	-02, -03, -04, -05, -06, -07, -08, -09, -10	-03.5 = (03.5 mm) .138"	-L = 10 μ " (0.25 μ m) Gold on contact, Matte Tin on tail	V	-S = Surface Mount	-W = Weld Tab Through-hole (Leave blank for no weld tab)	-TR = Tape & Reel
		-05.5 = (05.5 mm) .217"	-G = 10 μ " (0.25 μ m) Gold on contact, Gold flash on tail		-1 = Through-hole for (1.60 mm) .062" PCB	-S = Surface Mount Weld Tab	-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)
		-07.5 = (07.5 mm) .295"	-T = Matte Tin		-2 = Through-hole for (2.36 mm) .093" PCB		

UMPS
Board Mates:
UMPT
Standoffs:
GPSO



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



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

UMPT/UMPS CURRENT RATING (PER CONTACT)

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3	13.5 A	13.9 A
4	12.9 A	13.2 A
10	9.8 A	8.9 A

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Notes:
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Testing qualified; aligns
with MIL-DTL-55302.
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Some lengths, styles and
options are non-standard,
non-returnable

View complete specifications at: samtec.com?UMPS