

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
- Choice of 2 to 10 positions
- 5 mm to 20 mm stack heights available
- Tin or 10 μ" Gold plated power blades; 30 μ" Gold plating available to meet specific regulations
- Right-angle and cable components available

KEY SPECIFICATIONS

PITCH	STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	VOLTAGE RATING	LEAD-FREE SOLDERABLE
2.00 mm	5 to 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/ 650 VDC	Yes

A-UMPT/A-UMPS compared to another small form factor power solution

Terminals shown at 4 positions



mPower®



Traditional Power Solutions

CREEPAGE & CLEARANCE

A-UMPT/A-UMPS	
CREEPAGE	2.20 mm
CLEARANCE	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

Due to technical progress, all designs, specifications and components are subject to change without notice.

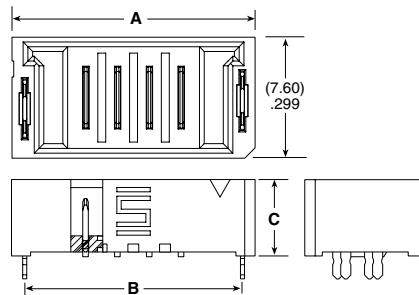


ULTRA MICRO POWER TERMINAL/SOCKET

A-UMPT	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	V	S	WELD TAB	TR
	-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 -T = Matte Tin			(Leave blank for no weld tab) -W = Weld Tab Through-hole	-TR = Tape & Reel

mPOWER®

A-UMPT
Board Mates:
A-UMPS



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

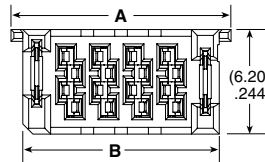
NO. OF POSITIONS	A	B	LEAD STYLE	C
-02	(11.30) .445	(9.70) .382	-01.5	(4.80) .189
-03	(13.30) .524	(11.70) .460	-02.5	(5.80) .228
-04	(15.30) .602	(13.70) .539	-06.5	(9.55) .376
-05	(17.30) .681	(15.70) .618	-07.5	(10.80) .425
-06	(19.30) .760	(17.70) .697	-12.5	(15.80) .622
-07	(21.30) .839	(19.70) .776		
-08	(23.30) .917	(21.70) .854		
-09	(25.30) .996	(23.70) .933		
-10	(27.30) 1.075	(25.70) 1.012		

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

A-UMPS	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	V	S	OPTION	TR
	-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 -T = Matte Tin			-W = Weld Tab Through-hole (Leave blank for no weld tab)	-TR = Tape & Reel

mPOWER®

A-UMPS
Board Mates:
A-UMPT



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

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

A-UMPT/A-UMPS CURRENT RATING (PER CONTACT)

PINS	-T	-L
1	18.3 A	16.2 A
2	14.5 A	14.6 A
3	14.2 A	12.6 A
4	12.9 A	12.3 A
5	12.9 A	N/A
10	N/A	9.4 A

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

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

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