

ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



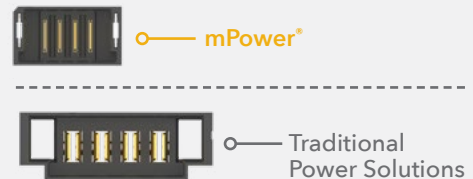
FEATURES & BENEFITS

- 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
- Optional weld tabs
- Cable-to-board and cable-to-cable systems in development

KEY SPECIFICATIONS

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

UMPT/UMPS compared to another small form factor power solution



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

UMPS	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	V	S	OPTION	"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 -S = 30 μ" (0.76 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 -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

UMPS
Board Mates:
UMPT

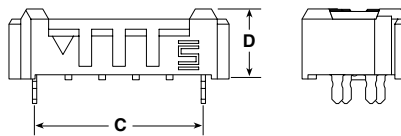
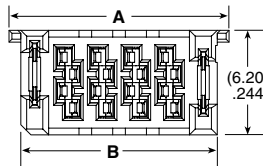


UMPT/UMPS CURRENT RATING (PER CONTACT)

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



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

View complete specifications at: samtec.com?UMPS

SIGNAL CONNECTOR	MATED HEIGHT													
	5 mm	6 mm	7 mm	8 mm	9 mm	10 mm	11 mm	12 mm	13 mm	14 mm	15 mm	16 mm	18 mm	20 mm
ADM6/ADF6	X													
BTE/BSE	X			X										
BTH/BSH, BTS/BSS	X													
ERM5/ERF5			X		X	X	X	X						
ERM6/ERF6	X													
ERM8/ERF8			X		X	X	X	X	X	X	X	X	X	
LPAM/LPAF	X													
QMS/QFS						X	X	X	X	X		X		
QRM8/QRF8			X		X	X		X		X				
QTE/QSE, QTH/QSH	X			X			X			X				
QTS/QSS	X			X						X				
SEAM/SEAF			X	X	X	X	X	X	X	X	X	X		X
SEAM8/SEAF8			X			X								
ST4/SS4	X	X												
ST5/SS5	X													
TEM/SEM		X	X			X								

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Power to the Board](#) category:

Click to view products by [Samtec](#) manufacturer:

Other Similar products are found below :

[6450552-7](#) [6643429-1](#) [6646040-2](#) [6766604-1](#) [120959-1](#) [1393557-2](#) [1393532-2](#) [1393532-3](#) [1393532-4](#) [1393557-1](#) [1744132-7](#) [1766250-1](#)
[1892109-1](#) [1-6450850-6](#) [1-6450869-6](#) [1645526-2](#) [2005243-2](#) [377-0020-11130](#) [MC116N](#) [TE34-12-16P-F0](#) [51700-10201602AALF](#) [51970-004](#) [5-6450830-6](#) [4-6600333-3](#) [10125416-4050LF](#) [10130248-005LF](#) [6600320-3](#) [IPBT-103-H1-T-S-RA](#) [1888123-2](#) [6766605-1](#) [701-15-02109](#)
[6450810-7](#) [46437-1112](#) [6450813-2](#) [6450842-4](#) [10108877-R24403SLF](#) [1645523-1](#) [PSS-06-01-T-S](#) [FWS-03-04-T-S](#) [51760-10301603ABLF](#)
[MDF6-TA2022HC](#) [FWS-05-01-T-S](#) [51720-10206002AALF](#) [QE-POL-KEY](#) [FWS-08-01-T-S](#) [698-0075-04](#) [6651670-1](#) [MC120N](#) [2-1600788-6](#)
[1761385-3](#)