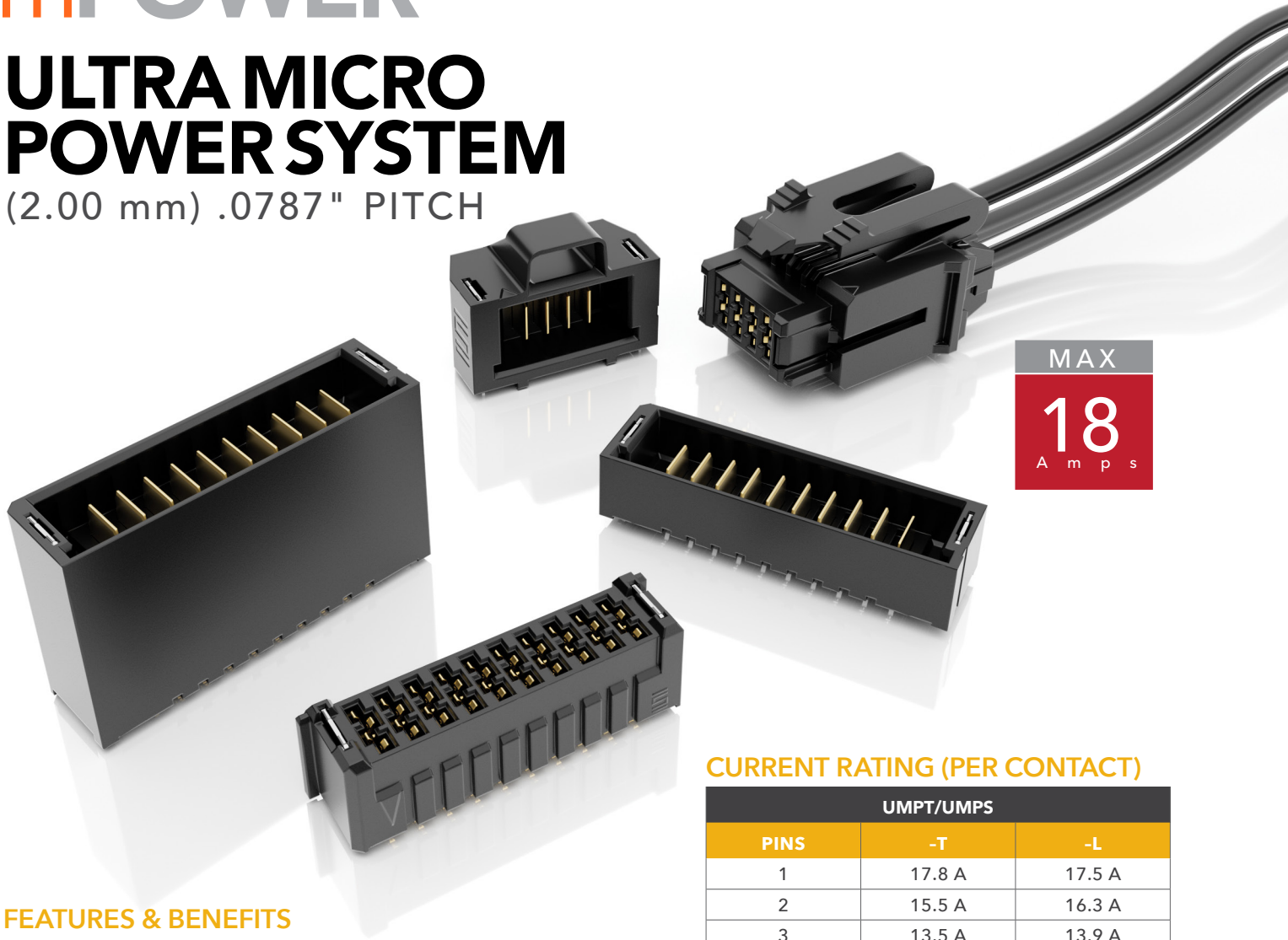


mPOWER®

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)

| PINS | UMPT/UMPS | |
|------|-----------|--------|
| | -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

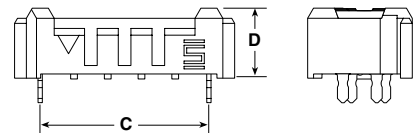
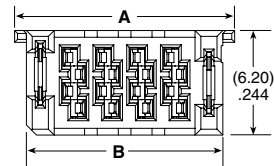
| UMPT/UMPS | |
|-----------|---------|
| CREEPAGE | 2.20 mm |
| CLEARANCE | 1.65 mm |

Selectively loading contacts achieves customer specific creepage and clearance requirements.

ULTRA MICRO POWER SOCKET

| 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 -G = 10 μ" (0.25 μm) Gold on contact, Gold flash 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
Standoffs:
GPSO



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
options are non-standard,
non-returnable

View complete specifications at: samtec.com?UMPS