



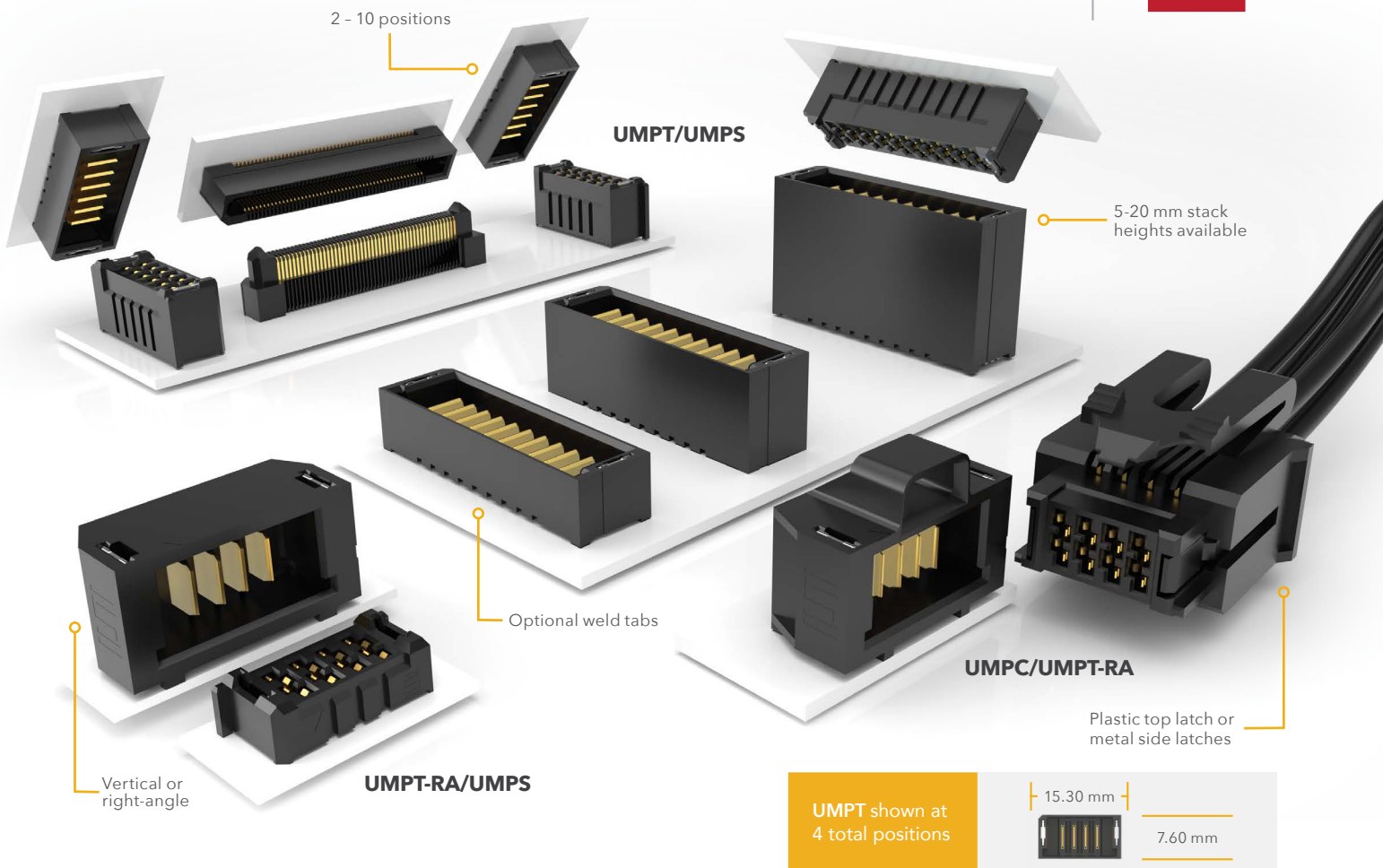
# FLEXIBLE POWER

## mPOWER™ 2.00 mm PITCH ULTRA MICRO POWER SYSTEM

- 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 (see chart)
- Tin or 10  $\mu$ " Gold plated power blades; 30  $\mu$ " Gold plating available to meet specific regulations
- Latch option for mating with cable assembly
- Standard creepage (2.20 mm) and clearance (1.65 mm)
- Cable components (IMPC/CC489) and tooling available
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact [asp@samtec.com](mailto:asp@samtec.com)

mPOWER®

MAX  
18  
Amps



### System

- **UMPT** – Ultra Micro Power Terminal
- **UMPT-RA** – Ultra Micro Power Terminal, Right-Angle
- **UMPS** – Ultra Micro Power Socket
- **GPSO** – Guide Post Standoff
- **UMPC** – Discrete Wire Cable Assembly
- **UMPCT** – Discrete Wire Teflon® Assembly
- **IMPC** – Discrete Wire Socket Housing
- **IMPCC** – Cable Holder for Socket Housing
- **CC489** – Crimp Contact

For more information on Samtec's high-power systems, please visit [samtec.com/mpower](http://samtec.com/mpower)

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# CONNECTOR SPECIFICATIONS

## POWER/SIGNAL MATED HEIGHTS

SIGNAL CONNECTOR	MATED HEIGHT (mm)													
	5	6	7	8	9	10	11	12	13	14	15	16	18	20
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													
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								

## CURRENT SPECIFICATIONS

CURRENT RATING (PER CONTACT)		
PINS	-T	-G
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 the maximum allowable temperature

## CREEPAGE & CLEARANCE

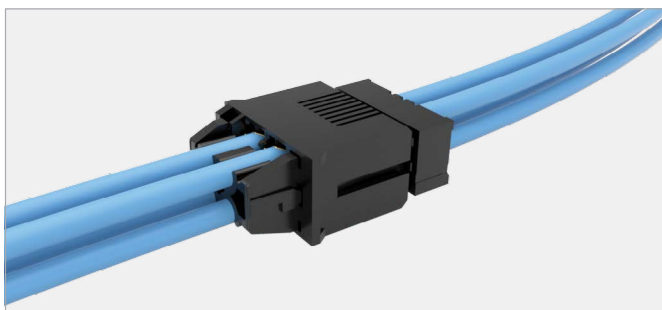
	CREEPAGE	CLEARANCE
UMPT/UMPS	2.20 mm	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements. Contact [asp@samtec.com](mailto:asp@samtec.com)

## POWER SIMULATION

Samtec now offers power simulation that can calculate temperature increase in the connector area. Contact [MicroRuggedGroup@samtec.com](mailto:MicroRuggedGroup@samtec.com) for more details.

# PRODUCT ROADMAP



### Cable-to-Cable System

Shown: 4 Position Cable Assemblies with high-temperature Teflon® cable

#### POSITIONS

2, 3, 4, 5, 6, 7, 8, 9, 10

#### OPTIONS

Teflon® cable and rugged latching

For the latest information about product availability, or to discuss your high-power system application needs, please contact [MicroRuggedGroup@samtec.com](mailto:MicroRuggedGroup@samtec.com).