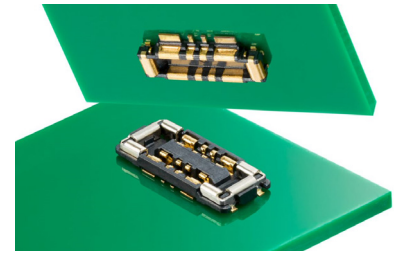


SlimStack Board-to-Board Connectors, 0.35 and 0.80mm Pitch, Battery Series >

Achieve up to 18.0A of power and electrical reliability in an ultra-compact design with SlimStack Hybrid Power Connectors, designed for battery and other power applications.

As consumers continue to demand smaller devices and bigger current value, the need for microminiature designs grows. Hybrid connectors deliver design flexibility while meeting tight-packaging needs.



FEATURES AND ADVANTAGES

Delivers up to 18.0A power

Meets the growing power needs of tight-packaging applications

Compact hybrid interface with power and signal contacts

Combines extra signal lines into a power connector footprint for space savings

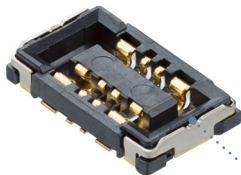
Robustness with full metal cover

Prevents housing damage during mating with interior cover

Dual-contact design

Assures contact reliability

Delivers up to 6.0A



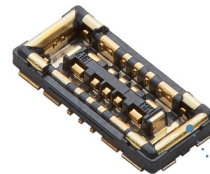
Receptacle,
505004 Series

Delivers up to 11.0A



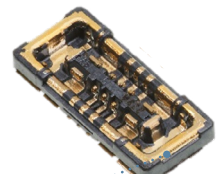
Receptacle,
207419 Series

Delivers up to 15.0A



Receptacle,
216656 Series

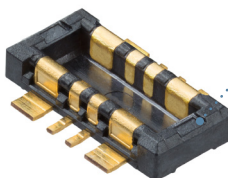
Delivers up to 18.0A



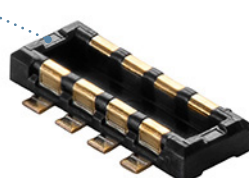
Receptacle,
220250 Series

Wide alignment area

Provides easy and secure mating



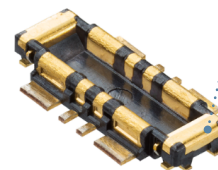
Plug, 505006 Series



Plug, 207420 Series

Armor nail

Prevents damage to housing



Plug, 216657 Series



Plug, 220251 Series

SlimStack Board-to-Board Connectors, 0.35 and 0.80mm Pitch, Battery Series ➤

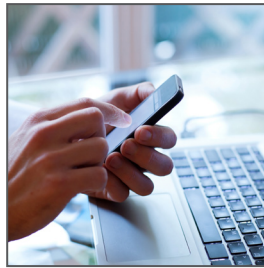
APPLICATIONS

Mobile Devices

Smartphones
Tablet PCs
Wearable Devices
Portable Audio
Portable Navigation Equipment

Medical Devices

Patient Monitoring
Therapeutic and Surgical



Smartphone



Wearable Watch



Patient Monitoring

SPECIFICATIONS

REFERENCE INFORMATION

Packaging: Embossed Tape on Reel
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low-Halogen

ELECTRICAL

Voltage (max.): 50V

Current (max.):

505004/505006

Signal Contact: 0.3A per circuit

Power Contact: 3.0A per circuit

207419/207420

Signal Contact: 0.3A per circuit

Power Contact: 5.5A per circuit

216656/216657

Signal Contact: 0.3A per circuit

Power Nail/1 pin + Power Contact/2 pin: 15.0A

220250/220251

Signal Contact: 0.3A per circuit

Power Nail/1 pin + Power Contact/2 pin: 18.0A

ELECTRICAL

Contact Resistance (max.):

505004/505006

Signal Contact: 80 milliohms

Power Contact: 10 milliohms

207419/207420

10 milliohms

216656/216657

Signal Contact: 50 milliohms

Power Nail/Power Contact: 5 milliohms

220250/220251

Signal Contact: 50 milliohms

Power Nail/Power Contact: 5 milliohms

Dielectric Withstanding Voltage: 250V AC

Insulation Resistance (min.): 100 Megohms

MECHANICAL

Durability (max.): 10 cycles

PHYSICAL

Housing: LCP, UL94V-0, Black

Contact: Copper Alloy

Plating:

Contact Area – Gold

Solder Tail Area – Gold

Underplating – Nickel

Operating Temperature: -40 to +85 °C

SlimStack Board-to-Board Connectors, 0.35 and 0.80mm Pitch, Battery Series >

ORDERING INFORMATION

Order No.		Circuits	Current (A)	Signal Pitch (mm)	Mated Height (mm)	Mated Width (mm)	Length (mm)
Receptacle	Plug						
220250-0069	220251-0069	8 (6 Signal; 2 Power)	18.0	0.35	0.70	2.30	5.10
216656-0109	216657-0109	10 (6 Signal; 4 Power)	15.0	0.40			5.00
207419-0081	207420-0081	8 (4 Signal; 4 Power)	11.0	0.80	0.75	2.50	5.20
505473-0810	505476-0810	8 (4 Signal; 4 Power)	10.0	0.40	0.60	2.00	
505473-1010	505476-1010	10 (6 Signal; 4 Power)					
505004-0812	505006-0812	8 (4 Signal; 4 power)	6.0		0.75	2.50	4.20

*Maximum current of 15.0A per connector is applicable if the circuit is constructed by two power circuits and one power nail via a PWB/FPC circuit.

*Maximum current of 11.0/10.0/6.0A per connector is applicable if the circuit is constructed by two power circuits via a PWB/FPC circuit.

www.molex.com/link/slimstack.html