

SlimStack 0.50mm-Pitch Board-to-Board Connectors >

SlimStack 0.50mm-Pitch Board-to-Board Connectors deliver design flexibility, with a wide range of circuit sizes and height variations as low as 1.50mm

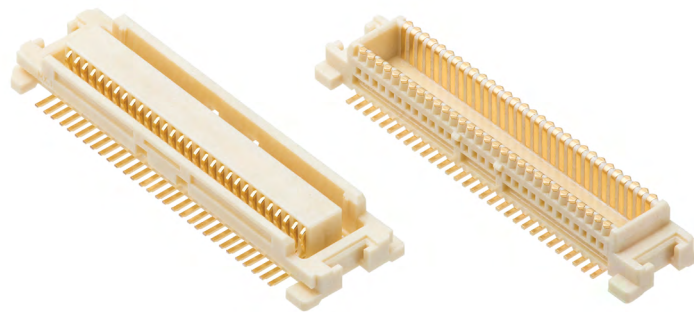
FEATURES AND ADVANTAGES

High operating temperature up to 105°C

Withstands harsh environments

Height variation from 1.50 to 4.00mm

Offers design flexibility



High-speed performance

Supports mobile industry processor interface (MIPI) D-PHY, MIPI M-PHY and HDMI 2.0 for all series. Supports DisplayPort 1.4 with 1.50mm mated connector height

APPLICATIONS

Automotive

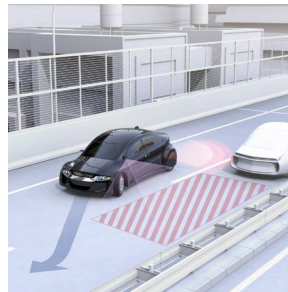
Car cameras
Car LiDAR
ADAS application sensors

Data / Computing

Desktop PCs
Tablet PCs
Servers

Industrial

Automation machines
Cameras/sensors
Test equipment



ADAS Sensor



Desktop PC



Automation machine

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SPECIFICATIONS

REFERENCE INFORMATION

Packaging: Embossed Tape on reel
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low halogen

MECHANICAL

Durability (min.): 30 cycles

ELECTRICAL

Voltage (max.): 50V
Current (max.): 0.5A per circuit
Contact Resistance (max.):
40 to 70 milliohms (varies by part)
Dielectric Withstanding Voltage:
125V to 500V AC (varies by part)
Insulation Resistance (min.): 100 Megohms

PHYSICAL

Housing: LCP, UL94V-0
Contact: Copper alloy
Plating:
Contact Area – Gold
Solder Tail Area – Gold, Tin for series 501920
Underplating – Nickel
Operating Temperature: -40 to +105°C

ORDERING INFORMATION

Order No.		Mated Height (mm)	Mated Width (mm)	Circuits
Receptacle	Plug			
54722-0xx4	55560-0xx8	1.50	6.00	16
	55560-0xx7			20, 22, 24, 30, 34, 36, 40, 50, 60, 80
54102-0xx4	500334-0xx0	2.50	5.30	16, 80
	53885-0xx8			20, 30, 40, 50, 60, 70
52991-0xx8	53748-0xx8	3.00	5.40	20, 30, 40, 60, 70, 80
	53916-0xx8	4.00		20, 80
	501920-xx01			30, 40, 50

www.molex.com/link/slimstack.html