DATASHEET

Micro-Lock Plus 1.25mm-Pitch Connector ›

Ideal for compact applications, the Micro-Lock Plus 1.25mm-Pitch Connector System provides electrical and mechanical reliability, design flexibility and secure mating retention to overcome challenges in high-temperature designs.

FEATURES AND ADVANTAGES

Provides secure mating retention; ensures proper mating
with wide positive latch that delivers audible click

Strengthens lock for more reliable connection
with outer lock for single-row version to secure mating retention

Meets other industry standards for harsh environments
by withstanding up to 105°C operating temperatures

Offers additional design flexibility in a smaller size
with the only 1.25mm pitch through-hole header housing with positive locking

Offers secure contact and terminal retention (can use existing mating parts)
as a result of its dual-contact terminal design

Helps make mounting easier
as a result of using a boss on the housing

Reduces assembly error that results in terminal back-outs
due to terminal position assurance (TPA) option

Reduces the product size and allows for the same locking strength as surface mounting
as a result of having a through hole with no nails

MARKETS AND APPLICATIONS

Appliances
White goods
Gaming machines
Drones
Air conditioners
Laser printers
Vacuum cleaners
Desktop PCs
Power tools

Automotive
Vehicle Infotainment
Mirror
Steering wheel
Switches

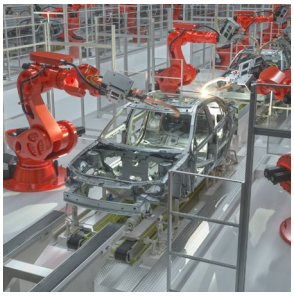
Industrial Automation
Automation
Robots

Air Conditioners

White Goods

Steering Wheel Switches

Drones



Industrial Automation

DATASHEET

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SPECIFICATIONS 1.25MM

Reference Information

Packaging: Reel (Terminal);
Tray (Header Assembly)
Bag (Receptacle Housing)
Designed In: Millimeters
RoHS: Yes
Low Halogen: Yes

Electrical

Voltage (max.): 50V AC rms/DC
Current : See below table
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 100 Megohms

Mechanical

Durability (max.): 30 Cycles
Crimp Terminal Insertion Force (max.): 4.9N
Crimp Terminal Retention Force (min.): 9.8N
Crimping Pull Out Force: 19.6N (min.) (AWG 26)
Housing Lock Strength: 68.6N (min.)
(Single 14-16 circuits)

Physical

Housing:
Receptacle – PBT
Header – PA
Crimp terminal: Copper alloy, Tin
Header pin: Copper alloy, Tin Bismuth
Operating Temperature: -40 to +105˚C

When mating with 204532 series (LH Receptacle Housing)

Current derating

AWG#	Current (A)		
	2-circuit	8-circuit	16-circuit
26	3.3	2.2	1.9
28	2.9	1.8	1.7
30	2.3	1.6	1.5

When mating with 214526 series (TPA Receptacle Housing)

Current derating

AWG#	Current (A)		
	2-circuit	6-circuit	9-circuit
26	3.1	2.4	2.1
28	2.7	2.0	1.8
30	2.3	1.6	1.5

ORDERING INFORMATION

Crimp Terminal

Series No.	Pitch (mm)	Component	Plating	AWG
505431	1.25	Receptacle Terminal	Tin	26, 28, 30
214529		TPA Crimp Terminal	Tin	

Receptacle Housing

Series No.	Pitch (mm)	Component	Circuits	Rows
204532	1.25	LH Receptacle Housing	2 to 16	Single
214526		TPA Receptacle Housing	2 to 9	

Header Assembly

Series No.	Pitch (mm)	Component	Circuits	Plating
220097	1.25	Vertical Through-Hole Header	2 to 16	Tin
220098		Right-Angle Through-Hole Header		

*Allowable current is different by combination

www.molex.com/link/microlockplus.html

Order No. 987652-6322 Rev. 3 USA/0k/GF/2023.10