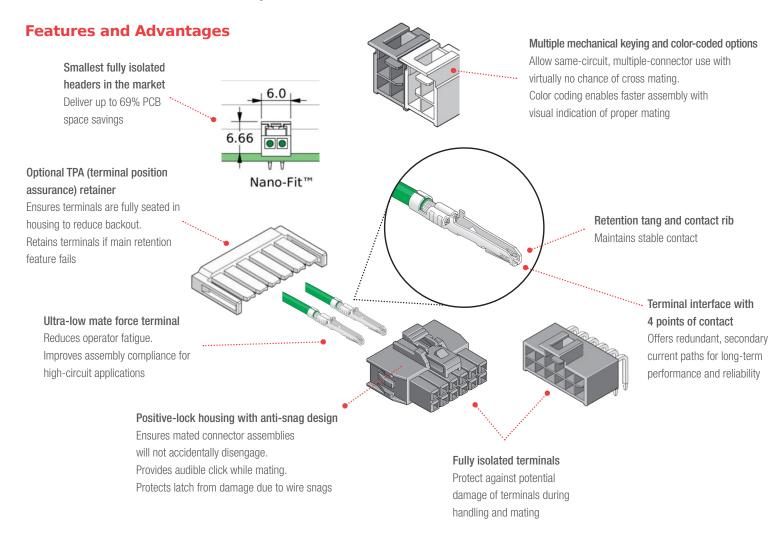
Nano-Fit[™] Power Connectors 2.50mm Pitch



Nano-Fit™ Power Connectors deliver both fully protected header terminals and a small package, while also offering keying options to ensure proper mating and terminal position assurance (TPA) retainers to prevent terminal backout



Applications

Consumer/Home Appliance

Refrigerators

Washers and dryers

Telecommunications/Networking

Servers

Hubs

Automotive

Interior

Lighting

Lighting

Home lighting fixtures

Ballasts

Aerospace and Defense

C4ISR

Industrial

Assembly line equipment Food and beverage

Medical

Healthcare IT

Patient care equipment



Infotainment Systems



Servers

Nano-Fit[™] Power Connectors 2.50mm Pitch



Specifications

REFERENCE INFORMATION

Packaging:
Terminals – Reel
Headers – Tray
Receptacles – Bulk
UL File No.: E29179
CSA File No.: LR19980
IEC File No.: Pending

Mates With: Nano-Fit™ Connectors and Receptacles

Terminal Used: Nano-Fit™ Designed In: Millimeters

RoHS: Yes Halogen Free: Yes

ELECTRICAL

Voltage (max.): 250V AC/DC Current (max.): 6.5A Contact Resistance Change Over Life (max.): 10 milliohms (Gold); 20 milliohms (Tin) Dielectric Withstanding Voltage: 1600V Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Insertion Force: 2.5N Contact Retention to Housing: 27N Insertion Force to PCB: 5N Mating Force: 3N Unmating Force: 3N Durability (min.): 20 tin, 50 gold

PHYSICAL

Housing:

Receptacle: Nylon UL 94V-0 Header: LCP UL 94V-0 Contact: High-conductivity copper

Plating:

Contact Area – Tin or $.381\mu$ (15 μ ") Gold or

.762µ (30µ") Gold Solder Tail Area – Tin Underplating – Nickel PCB Thickness: 1.60 and

PCB Thickness: 1.60 and 2.40mm Operating Temperature: -40 to +115°C

Ordering Information

Series No.	Component	Orientation	Rows	Termination Style
<u>105300</u>	Female Crimp Terminal	_	_	
<u>105307</u>	Single-Row Receptacle		Single	
<u>105308</u>	Dual-Row Receptacle		Dual	
<u>105325</u>	TPA Retainer		_	
105309	Header	Vertical	Single	Kinked Pin
<u>105311</u>				Solder Clip
<u>105310</u>			Dual	Kinked Pin
<u>105312</u>				Solder Clip
<u>105313</u>		Right-Angle	Single	Through Hole
<u>105314</u>			Dual	

www.molex.com/link/nanofit.html