

2x1 Magnetic Jacks >

The magnetic components in the jack help filter and isolate signals, reducing noise and improving overall signal quality. Unlike traditional connectors, which often face signal degradation due to noise and interference, the Magnetic Jack's design mitigates this issue, ensuring better signal integrity. The 2x1 configuration allows for two ports in a single module, saving space on circuit boards and in devices where space is at a premium. This compact design addresses the need for multiple ports in a single efficient module.



ADVANTAGES AND FEATURES

Provides a quick visualization of system status and functionality

The multiple LED status indicators make it easy for users to manage their connections efficiently and respond swiftly to any issues, enhancing both the usability and reliability of the system.

Provides an additional layer of protection against electromagnetic interference (EMI)

The EMI shield tabs enhance the ability of Magnetic Jacks to operate reliably in environments prone to EMI, ensuring high-quality signal transmission and reducing the likelihood of performance issues.

Voltage (max.)	125V DC
Current (max.)	0.1A
Contact Resistance	20 milliohms
Mating Cycles (min.)	750 cycles
PCB Thickness	2.00 to 2.80mm
Operating Temperature	-40 to +85°C

Delivers robust and reliable through-hole PCB connections

The reflow-solder capability and enhanced solder joint integrity provided by pin-in-paste technology makes it an ideal choice for high-density PCB designs, ensuring both efficiency and durability.

MARKETS AND APPLICATIONS

Telecommunications

Hubs
Servers
Printers
Set-Top boxes

Industrial Automation

PLC Controllers
Network Interfaces
Motion Control Devices
Sensor Networks

Power for Data Center

Internet of things applications
Wireless Access Points



Set-Top Boxes



PLC Controllers



Wireless Access Points

2x1 Magnetic Jacks

SPECIFICATIONS

Reference Information

Packaging: Tray
 UL File No.: E177474
 Mates with: IEC-60603-7-1/TIA-1096-A
 Designed In: Millimeters
 RoHS: Compliant with exemption
 Low Halogen : Yes

Electrical

Voltage (max.): 125V DC
 Current (max.): 0.1A
 Contact Resistance: 20 milliohms
 Dielectric Withstanding Voltage: 2,250V DC

Mechanical

Durability: 750 cycles
 Vibration Test: Discontinuities 10 μ s maximum

Physical

Housing: LCP Black
 Shield : Nickel-plated Brass
 Contact: Copper alloy
 Plating: Gold
 Contact Area — Gold
 Solder Tail Area — Tin
 Underplating — Nickel
 PCB Thickness: 2.0 to 2.8mm
 Operating Temperature: -40 to 85°C
 Environmental Exposure: 7 years

ORDERING INFORMATION

Part Number	Ethernet Speed	Left LED	Right LED	Operating Temp	Packaging
2245390001	Gigabit	Yellow	Green	-40 to +85°C	Tray
2245390002		Yellow	Green/Orange		
2245390003		Green	Yellow		
2245390004		Green/Yellow	Green/Yellow		
2245390005		Green/Orange	Green/Orange		

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