

XRJF and XRJG Series RJ CONNECTOR JACKS



XMULTIPLE Multi Modular Jacks with integrated magnetics and LEDs are designed under U.S. Patent 4,978,317. The XRJF and XRJG RJ45 connectors jacks are for applications requiring printed circuit board mounted, shielded and unshielded modular jacks with integrated magnetics and configured in a tab down position. The XRJF and XRJG are provided with thru-hole PC board mount. These high performance category 5 jacks conform to TIA/EIA-568A requirements. The XRJF Series are integrated with magnetics without LEDs and the XRJG Series are integrated with magnetics and LED's.

The XRJF and XRJG Modular Jacks are both offered in compact sizes and meet FCC Rules and Regulations, Part 68. The shield consists of copper alloy base metal with tin-lead plating and copper under plating. The jack contacts are overall nickel-plated phosphor bronze, with plated gold in the contact area and tin-lead in the solder area. Lead free versions of these connectors are also available.

LEDs integrated into the XRJG modular jack reduce space requirements for indicators. LEDs reduce time and much of the labor cost for electronic assembly. With built in LEDs the status of transmit/receive, collisions and line status can be identified by viewing the indicators directly in each port. The LEDs are offered in a variety of color combinations.

The XRJF and XRJG modular jacks are provided with 1 and 4 ports. The modular jacks can be designed into a variety of computer and networking devices with or without shielding.

PRODUCT FACTS

- ✦ XRJF available without LEDs and XRJG with LEDs
- ✦ XRJG Series integrated with LEDs integrated directly into jack and maintains compact form
- ✦ LEDs located at bottom of jack for effective visibility
- ✦ LEDs provided in a variety of color options
- ✦ LEDs manufactured under license for U.S. Patent 4,978,317
- ✦ Harmonic Modular Jacks with magnetics and LEDs in 1 and 4 ports configurations
- ✦ Unshielded and shielded versions in popular size configurations
- ✦ Provides grounding through panel and PC Board, gold plating and solder tails
- ✦ Lower labor cost during assembly of PCB
- ✦ Meets or exceeds FCC Part 68 rules and regulations with standard PC board footprints
- ✦ Produced under a Quality Management Certified to ISO 9001

LED MODULAR JACK SPECIFICATIONS

Electrical

- **Current Rating** - 1.5 amp max. at 25°C
- **Voltage Rating** - 150 VAC max.
- **Dielectric Withstanding Voltage** – 1000 VAC
- **Insulation Resistance** – 500m ohms min.
- **Shielding Effectiveness** - 20dB min., 10 to 200 MHz

Mechanical

- **Durability** - 750 mating cycles
- **Mating/Unmating Forces** - 4.5 lbs. Max
- **Operating Temperature** - -40°C to 70°C

Material & Finish

- **Housing** - High temperature Nylon, Black, UL 94V-0 rated
- **Contact** - 0.33 [.013] Phosphor bronze, plated 0.00127 [.000050] gold in localized area and 0.00381 [.000150] tin-lead on solder tails, over 0.00127 [.000050] nickel underplate
- **Shield** - 0.25 [.010] copper alloy, tin-lead plated



ORDERING INFORMATION

Part Number: XRJF-X-XX-XX-XXX-X-XXX
Part Number: XRJG-X-XX-XX-XXX-X-XXX
Reference Drawings indicates the X numbering
Family: LED and Non-LED Modular Jacks with Integrated Magnetics
Version: Position, Through Hole
Number of Contacts & Positions: (6 or 8)
Shielding: Shielded or Unshielded
Number of Ports: 1 and 4
LED1: Various Colors or Bi-LED Optional
LED2: Various Colors or Bi-LED Optional

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XMULTIPLE

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THE INFORMATION
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