Modular Jack – RJE58 Series

CAT5e, RIGHT ANGLE, SINGLE PORT CONNECTOR WITH AVAILABLE LEDs

The RJE58 single port series of Modular Jacks meet CAT5e performance per EIA–568–C.2 standards. It supports 1G and 2.5G Ethernet data rates and transmissions frequencies up to 100MHz. Shielding is available for increased EMI performance and LEDs are incorporated for link activity and network speed verification. The connectors are highly durable with 750 mating & unmating cycles. They also support an operating temperature of –55°C to +85°C, making them suitable for a wide range of environmental conditions.

- Supports 1G and 2.5G Ethernet Protocols
- Meets CAT5e performance on its own without outside assistance
- Same size and footprint as the RJE59 and RJE60 series
- Multiple shield and LED options available
- RoHS compliant

TARGET MARKETS

FEATURES

- Variety of LED options
- Standard size
- Accommodates industry standard plugs
- Reflow compatible
- Available with and without shielding
- Meets CAT5e performance per EIA–568–C.2.

BENEFITS

- Customers can opt for the LED color of their choice
- Optimizes the PCB space
- Can mate successfully with all types of standard plugs
- Single process for soldering to PCB, saving time and money
- Accommodates a wide range of EMI needs
- Supports 1G and 2.5G Ethernet

TECHNICAL INFORMATION

MATERIAL

- Insulator: High temperature engineering thermoplastic; Complies with UL94V–0, Black

- Contacts: Phosphor bronze hard temper with gold thickness options (6u", 15u", 30u", 50u") over 50u" min. nickel on contact mating area. 100u" min. matte tin plating on soldering tail

- Shield: Copper alloy, nickel plated with tin dipped tail or stainless steel with tin dipped tail

- LED: Pure tin plating on LED tails

ELECTRICAL PERFORMANCE

- Contact Resistance: 20 mΩ max.

- Insulation Resistance: 500 MΩ min. at 500V DC for 2 minutes max.

- Current Rating: 1.5 Amps

- Voltage Rating: 125V AC

- Dielectric Withstanding Voltage: 1000V AC, 60 Hz., 1 minute

- LED Forward DC Current: 20mA typical

- LED Forward Voltage: 1.9 Volts max. @ 2 mA (for single colors), 2.6 Volts max. @ 20 mA (for bicolors)

- LED Reverse Voltage: 5 Volts min.

- LED Light Intensity: 0.4 to 1.5 mcd @ 2 mA (for single colors), 0.5 mcd min. @ 2 mA (for bicolors)

- LED Wave Length: Yellow – 587 +/– 7 nm measured @ 20 mA, Green – 565 +/– 7 nm measured @ 20 mA, Red – 625 +/– 5 nm measured @ 20 mA

MECHANICAL PERFORMANCE

- Insertion Force: 5 lbs max.

- Pull Retention Force: 20 lbs min.

- Durability: 750 mating and unmating cycles

SPECIFICATION

- Amphenol Product Specification: S6078C

APPROVALS AND CERTIFICATIONS

- RoHS

- REACH

- UL

ENVIRONMENTAL

- Operating Temperature: –55°C to +85°C

- Recommended Soldering Temperature: Wave soldering peaked at 260°C for 5 seconds max.

PACKAGING

- Available in tray and tape and reel packaging

TARGET MARKETS/APPLICATIONS

5G Wireless
Telephones
Modems
Fax Machines
Copiers/printers

Security Systems
Set Top Boxes
Video Game Systems
PCs
Laptops

Storage
Servers
Routers
Switches
Hubs

Uninterruptible Power Supply (UPS)
ATMs
Vending Machines
POS Terminals
Industrial IoT Platforms

Analysis equipment
Mass Spectrometers

PART NUMBERS

Product	Description	Part Numbers
RJE58 Modular Jack Series	Shield with top and side EMI tabs, no LEDs	RJE58–188–5401
RJE58 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE58–188–5441
RJE58 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE58–188–5411
RJE58 Modular Jack Series	Shield with no EMI tabs, no LEDs	RJE58–188–6401
RJE58 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE58–188–6441
RJE58 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE58–188–6411
RJE58 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE58–188–64A1
RJE58 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE58–188–5411
RJE58 Modular Jack Series	Shield with top EMI tabs, no LEDs	RJE58–188–3401
RJE58 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE58–188–3411
RJE58 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE58–188–3441
RJE58 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE58–188–34A1

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