Modular Jack – RJE88 Series

TAB–UP, LOW–PROFILE VERTICAL WITH SHIELD AND INTEGRATED LEDS

RJE88 series is a robust series of EMI–Quiet Modular Jack connectors with integrated LEDs, ideal for LAN applications such as adapter cards and routers. Vertical single–port are all available in 8P8C. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non–shielded versions are available, with a variety of color options for LEDs and housings, as well as several gold plating thicknesses to choose from.

- Low profile
- Integrated LEDs available in a wide range of colors
- Variety of EMI shielding available
- RoHS compliant

TARGET MARKETS

FEATURES

- Available in various shield options
- Variety of LED options
- Wide operating temperature: –55° C to +85°C
- 750 mating & unmating cycles
- With high temperature thermoplastic, connectors without LEDs are suitable for the reflow process

BENEFITS

- Accommodates a wide range of EMI needs
- Customers can opt for the LED color of their choice
- Adaptable to a wide range of environmental conditions
- Suitable for applications that require multiple connecting and disconnecting of devices
- Single process for soldering to PCB, saving time and money

TECHNICAL INFORMATION

MATERIAL

- Insulator: High temperature thermoplastic. Complies with UL 94V–0, Multiple colours available

- Contacts: Phosphor Bronze hard temper with Gold thickness options (6μin, 15uμin, 30μin, 50μin) over 50μin min. Nickel on contact mating area. 100μin min. matte Tin plating on soldering tail

- Shield: Stainless Steel with Tin dipped tails

- LED: Pure tin plating on LED tails

ELECTRICAL PERFORMANCE

- Contact Resistance: 20mΩ max.

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

- Current Rating: 1.5Amps

- Voltage Rating: 125VAC

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

- LED Forward DC Current: 20mA typical

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

- LED Reverse Voltage: 5V min.

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

- LED Wave Length: Yellow – 587 ± 7nm

  - Measured @ 20mA, Green – 565 ± 7 nm

  - Measured @ 20mA, Red – 625 ± 5 nm

  - Measured @ 20mA

APPROVALS & CERTIFICATION

- RoHS

- REACH

- UL

MECHANICAL PERFORMANCE

- Mating Connector Insertion Force: 5.0lbs max.

- Mating Connector Pull Retention Force: 20lbs min.

- Durability: 750 mating and unmating cycles

SPECIFICATION

- Amphenol Product Specification: S6090C Rev 1.3

APPROVALS AND CERTIFICATIONS

- RoHS

- REACH

- UL

PACKAGING

- Available in Tray, Tube, and Tape and Reel

ENVIRONMENTAL

- Operating Temperature Range: –55˚C to +85˚C

- Recommended soldering temperature: Wave soldering peaked at 260˚C for 5 seconds max. Connectors without LEDs are suitable for IR reflow

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

Description	Part Numbers	Part Numbers
RJE88 Modular Jack Series	Single port, vertical, without shield, with LEDs	RJE881880110
	Single port, vertical, without shield, with LEDs	RJE881880140
	Single port, vertical, without shield, with LEDs	RJE881880410
	Single port, vertical, without shield, with LEDs	RJE881880440
	Single port, vertical, with shield, with LEDs	RJE881881110
	Single port, vertical, with shield, with LEDs	RJE881881140
	Single port, vertical, with shield, with LEDs	RJE881881410
	Single port, vertical, with shield, with LEDs	RJE881881440
	Single port, vertical, with shield, with LEDs	RJE881882110
	Single port, vertical, with shield, with LEDs	RJE881882410
	Single port, vertical, with shield, with LEDs	RJE881882440

Find part number details using the search box on www.amphenol-cs.com

www.amphenol-cs.com