Modular Jack – RJSGE Series

CAT5e, STACKED, PRESS FIT, FOUR PORT CONNECTOR WITH LEDs

The RJSGE series of modular jacks is a unique 2x2, four port, press fit, Cat5e connector that meets Cat5e performance as per EIA-568-C.2 standards. It meets the 1G and 2.5G standards and supports a transmission rates up to 100MHz. Press fit contacts allows for an alternative to the more expensive SMT or THT soldering methods of connecting a RJ to a PCB. Standard, bi-color, and tri-colored LEDs available on each port. Enhanced shielding options available for increased EMI performance.

- Supports 1G and 2.5G Ethernet Protocols
- Meets Cat5e performance on its own without outside assistance
- Press fit contacts
- Multiple shield and LED options available
- RoHS compliant



TARGET MARKETS



FEATURES

FEATURES	BENEFITS
Variety of LED options	Customers can opt for the LED color of their choice
Standard size	Optimizes the PCB
Accommodates industry standard plugs	Can mate successfully with all types of standard plugs
Press fit contacts	Eliminates the need to solder the connector to a PCB
Various shield options available	Accommodates a wide range of EMI needs
Meets Cat5e performance per EIA-568-C.2	Supports up to 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 contactmAting 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: 20mΩ max.
- Insulation Resistance: 500MΩ min. at 500V DC for 2 minutes max.
- Current Rating: 1.5A
- Voltage Rating: 125V AC
- DWV: 1000V AC, 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 ± 7nm measured @ 20mA, Red – 625 ± 5nm measured @ 20mA

MECHANICAL PERFORMANCE

- Insertion Force: 5lbs max.
- Pull Retention Force: 20lbs min.
- Durability: 750 mating and unmating cycles
- Operating Temperature: –55°C to +85°C
- Recommended Soldering Temperature: Wave soldering peaked at 260°C for 5 seconds max.

APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

PACKAGING

- Available in tray and tape and reel packaging

TARGETMARKETS/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

Disclaimer
Please note that the above information is subject to change without notice.

PART NUMBERS

Product	Description	Part Numbers
RJSGE Modular Jack Series	Shield with no EMI tabs, without LEDs	RJSGE-488-6401
RJSGE Modular Jack Series	Shield with no EMI tabs, with LEDs	RJSGE-488-6411
RJSGE Modular Jack Series	Shield with no EMI tabs, with LEDs	RJSGE-488-6441
RJSGE Modular Jack Series	Shield with EMI tabs, without LEDs	RJSGE-488-7401
RJSGE Modular Jack Series	Shield with EMI tabs, without LEDs	RJSGE-488-7411
RJSGE Modular Jack Series	Shield with EMI tabs, without LEDs	RJSGE-488-7441
RJSGE Modular Jack Series	No shield with LEDs	RJE48-188-0441

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