

Modular Jack – RJCSE Series

TAB UP, SHIELD SINGLE PORT CONNECTOR WITH SHIELD AND INTEGRATED LEDS

The RJCSE series is a single port, right angle, surface mount connector. The shielding provides increased EMI performance. These connectors are featured with built-in LEDs for link activity and network verification. These are available in various options and in wide range of colors for the LED.

- Standard profile
- Available in various options
- Variety of EMI shield tabs available
- Integrated LEDs available in a wide range of colors
- RoHS compliant



TARGET MARKETS



FEATURES

- Variety of LED options
- Surface Mount Type (SMT)
- Accommodates industry standard plugs
- Variety of contact plating options
- Available with and without shielding

BENEFITS

- Offers a wide range for customers to choose
- Suitable for the reflow process
- Can mate successfully with all plugs that meet industry standards
- Suitable for applications that require high or low frequency plug insertions
- Accommodates a wide range of EMI needs

TECHNICAL INFORMATION

MATERIAL

- Insulator: High temperature engineering thermoplastic; complies with UL94V-0, black
- Contacts: Phosphor bronze hard temper with gold thickness options (15 μ , 50 μ) over 50 μ min. nickel on contact mating area. Gold flash over nickel on soldering tail
- Shield: Stainless steel with matte tin plating
- LED: Epoxy lens with pure tin plating on LED tail

ELECTRICAL PERFORMANCE

- Contact resistance: 20m Ω max.
- Insulation resistance: 500M Ω min. at 500V DC for 2 minutes max.
- Current rating: 1.5Amps
- Voltage rating: 125V AC
- 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 +/- 7nm measured @ 20mA, Red – 625 +/- 5nm measured @ 20mA

MECHANICAL PERFORMANCE

- Insertion force: 5 lbs max.
- Pull retention force: 20 lbs min.
- Durability: 750 mating and unmating cycles (for 50 μ gold plating option). Connectors are suitable for IR reflow at 245°C for max. 10 seconds
- Operating temperature: -55°C to +85°C
- Recommended soldering temperature: Wave soldering peaked at 260°C for 5 seconds max.

APPROVALS AND CERTIFICATIONS

- REACH
- RoHS
- UL
- CSA

ENVIRONMENTAL

- EIA 364-31 method III test condition A
- Temperature: 25°C to 65°C
- Humidity: 90% to 95% RH
- Period: 96 hours
- Salt Spray: 5% 48 hours at 35°C

PACKAGING

- Tape and reel

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

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PART NUMBERS

Description	Part Numbers
No Shield, No LEDs	RJCSE-5080-01
No Shield, With LEDs	RJCSE-5081-01
No Shield, With LEDs	RJCSE-508A-01
Shield With No EMI Tabs, No LEDs	RJCSE-5480-01
Shield With No EMI tabs, With LEDs	RJCSE-5481-01
Shield With No EMI tabs, With LEDs	RJCSE-548A-01
Shield With No EMI Tabs, No LEDs	RJCSE-5380-01
Shield With EMI Tabs, With LEDs	RJCSE-5381-01
Shield With EMI Tabs, With LEDs	RJCSE-5384-01
Shield With EMI Tabs, With LEDs	RJCSE-538A-01