

## 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 (15u", 50u") over 50u" 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: 20mΩ max.
- Insulation resistance: 500MΩ 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 50u" 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

## 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