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

FEATURES	BENEFITS
▪ Variety of LED options	▪ Offers a wide range for customers to choose
▪ Surface Mount Type (SMT)	▪ Suitable for the reflow process
▪ Accommodates industry standard plugs	▪ Can mate successfully with all plugs that meet industry standards
▪ Variety of contact plating options	▪ Suitable for applications that require high or low frequencyplug insertions
▪ Available with and without shielding	▪ 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

CMIORJCSE1120EA4

Mouser Electronics

Authorized Distributor

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Amphenol:

RJCSE-5380-01 RJCSE-5385-01 RJCSE-5381-01 RJCSE-5085-01 RJCSE-5081-01 RJCSE-5080-01 RJCSE538B01 RJCSE5B810102 RJCSE5B820102 RJCSE5B830102 RJCSE5B840102 RJCSE5B8P0102 RJCSE5B8R0102 RJCSE5B8T0102 RJCSE5B8V0102 RJCSE5B8H0102 RJCSE5B8J0102 RJCSE5B8K0102 RJCSE5B8L0102 RJCSE5B8M0102 RJCSE5B8N0102 RJCSE5B8B0102 RJCSE5B8C0102 RJCSE5B8D0102 RJCSE5B8E0102 RJCSE5B8F0102 RJCSE5B8G0102 RJCSE5B850102 RJCSE5B860102 RJCSE5B870102 RJCSE5B880102 RJCSE5B890102 RJCSE5B8A0102 RJCSE338B01 RJCSE508201 RJCSE508301 RJCSE508401 RJCSE508601 RJCSE508701 RJCSE338N01 RJCSE338P01 RJCSE338R01 RJCSE338T01 RJCSE338V01 RJCSE338G01 RJCSE338H01 RJCSE338J01 RJCSE338K01 RJCSE338L01 RJCSE338M01 RJCSE338901 RJCSE338A01 RJCSE338C01 RJCSE338D01 RJCSE338E01 RJCSE338F01 RJCSE338301 RJCSE338401 RJCSE338501 RJCSE338601 RJCSE338701 RJCSE338801 RJCSE548R01 RJCSE548T01 RJCSE548V01 RJCSE338001 RJCSE338101 RJCSE338201 RJCSE548J01 RJCSE548K01 RJCSE548L01 RJCSE548M01 RJCSE548N01 RJCSE548P01 RJCSE548C01 RJCSE548D01 RJCSE548E01 RJCSE548F01 RJCSE548G01 RJCSE548H01 RJCSE548601 RJCSE548701 RJCSE548801 RJCSE548901 RJCSE548A01 RJCSE548B01 RJCSE548001 RJCSE548101 RJCSE548201 RJCSE548301 RJCSE548401 RJCSE548501 RJCSE538M01 RJCSE538N01 RJCSE538P01 RJCSE538R01 RJCSE538T01 RJCSE538V01 RJCSE538F01 RJCSE538G01