

Modular Jack – RJE72 Series

CAT5e, RIGHT ANGLE, RECESSED, LOW PROFILE SINGLE PORT CONNECTOR WITH LEDs

The RJE72 single port series of Modular Jacks meets CAT5e performance per EIA-568-C.2 standards. It supports 1G and 2.5G Ethernet data rates and transmission frequencies up to 100MHz. The available shielding enhances EMI performance and LEDs support link activity and network speed verification. These connectors are made with high temperature composites and are coupled with high temperature resistant LEDs. Highly durable with 750 mating and unmating cycles and supports an operating temperature of -55°C to + 85°C, making them suitable for a wide range of environmental conditions.

- Supports 1G and 2.5G Ethernet Protocols
- Meets Cat5e performance on its own without outside assistance
- Same size and footprint as RJE71 and RJE7B series
- Multiple shield and LED options available
- RoHS compliant



TARGET MARKETS



FEATURES

- Variety of LED options
- Standard size
- Accommodates industry standard plugs
- IR Reflow compatible
- Various shield options available
- Meets Cat5e performance per EIA-568-C.2

BENEFITS

- Customers can opt for the LED color of their choice
- Optimizes the PCB
- Can mate successfully with all types of standard plugs
- Single process for soldering to PCB, saving time and money
- Accommodates a wide range of EMI needs
- 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

PART NUMBERS

Product	Description	Part Numbers
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1411
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1412
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1413
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1441
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1442
RJE72 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE72-188-1443
RJE72 Modular Jack Series	Shield with top and side EMI tabs, no LEDs	RJE72-188-1401
RJE72 Modular Jack Series	Shield with top and side EMI tabs, no LEDs	RJE72-188-1402
RJE72 Modular Jack Series	Shield with top and side EMI tabs, no LEDs	RJE72-188-1403

Mouser Electronics

Authorized Distributor

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Amphenol:

RJE724881411	RJE724881451	RJE7218814A1	RJE724881401	RJE721881451	RJE721881411	RJE7248814A1
RJE7248814B1	RJE721881441	RJE724881441	RJE7218814B1	RJE721881401	RJE721881452	RJE724881311
RJE721881352	RJE721881353	RJE721881412	RJE724881352	RJE721881351	RJE724881252	RJE724881443
RJE724881453	RJE724881452	RJE721881453	RJE721881402	RJE724881351	RJE7218811D3	RJE724881422
RJE721881161	RJE7218812P3	RJE721881232	RJE7218814N3	RJE7248814M1	RJE7218812D3	RJE7248811G1
RJE724881261	RJE7248814P2	RJE7248813C1	RJE7218813E2	RJE7248812C3	RJE7248813B1	RJE7248813J3
RJE7218814F1	RJE7248812P3	RJE7248812A2	RJE721881431	RJE724881122	RJE7248813N1	RJE724881153
RJE721881123	RJE7218813F2	RJE721881373	RJE724881292	RJE7218814V1	RJE721881301	RJE7248811K2
RJE7248811N3	RJE7248811F1	RJE724881222	RJE7218812H1	RJE724881182	RJE7218813N1	RJE724881492
RJE7218813H3	RJE721881201	RJE724881301	RJE7248813F2	RJE721881192	RJE7218812L2	RJE7218811C3
RJE7248814L1	RJE721881292	RJE724881383	RJE7218814B3	RJE7248811B3	RJE721881473	RJE7248811C3
RJE724881373	RJE721881271	RJE7248812M2	RJE7218814L2	RJE7248814N1	RJE7218813C1	RJE721881133
RJE721881332	RJE7218813B1	RJE724881232	RJE7218812B2	RJE7218813J3	RJE7248812L2	RJE7218812G1
RJE7248812D3	RJE721881442	RJE721881221	RJE7218813D1	RJE724881393	RJE7218813K3	RJE7218811B2
RJE724881322	RJE7248813V2					