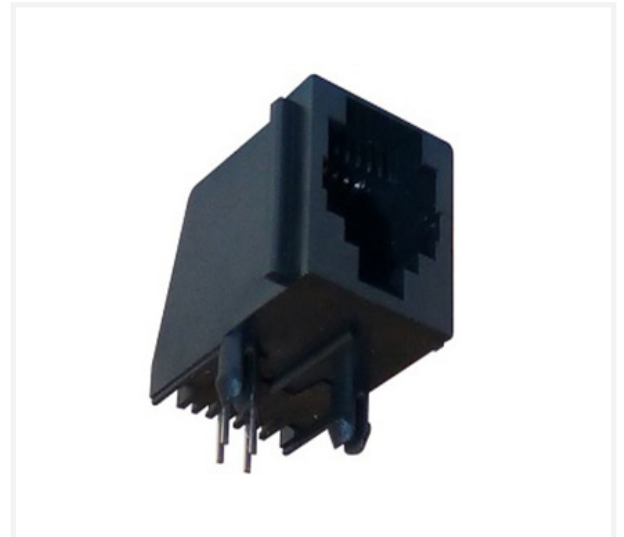


## Modular Jack – RJE02 Series

### CAT5, RIGHT ANGLED, LOW PROFILE THT, SINGLE PORT CONNECTOR

The RJE02 single port series of Modular Jacks meets CAT5E performance per EIA-568-C.2 standards. It supports 100 BaseT Ethernet data rate and transmission frequencies up to 100MHz. The available shielding enhances EMI performance and network speed verification. These connectors are 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 CAT3/5 Ethernet Protocols
- Tab Down Through-Hole
- RoHS compliant



#### TARGET MARKETS



#### FEATURES

- Available in 6P6C and 8P8C
- Standard size
- Accommodates industry standard plugs
- Wave / Reflow compatible
- Board Lock Option
- Meets CAT5 as per EIA-568-C.2

#### BENEFITS

- Customers can opt for RJ11 and RJ45 applications
- Optimizes the PCB
- Can mate successfully with all types of standard plugs
- Economical process for soldering to PCB, saving time and money
- Accommodates a wide range of EMI needs
- Supports up to 100 BaseT Ethernet

## TECHNICAL INFORMATION

### MATERIAL

- Insulator: High temperature engineering thermoplastic; Complies with UL94V-0, Black
- Contacts: Phosphor Bronze hard temper with Gold thickness options (6µin, 15µin, 30µin, 50µin) over 50µin min. Nickel on contact mating area. 100µin 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

### MECHANICAL PERFORMANCE

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

### ELECTRICAL PERFORMANCE

- Contact Resistance: 20mΩ max.
- Insulation Resistance: 500MΩ min. at 500VDC for 2 minutes max.
- Current Rating: 1.5A
- Voltage Rating: 125VAC
- Dielectric Withstanding Voltage: 1000VAC, 60Hz, 1 minute

### PACKAGING

- Tray and Tape
- Reel

### SPECIFICATIONS

- Design to meet IEEE 802.3ab standard

### APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

### 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

Product	Description	Part Numbers
RJE02 Modular Jack Series	Single port, without shield, with flange	RJE02-164-0X21
RJE02 Modular Jack Series	Single port, without shield and flange	RJE02-1XX-0X10
RJE02 Modular Jack Series	Single port, high temp plastic, without shield, with flange	RJE02-1XX-0X20-H
RJE02 Modular Jack Series	Single port, high temp plastic, without shield, and with flange	RJE02-188-0X10-H

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)