

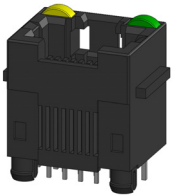
*Now you're connected!*

### About Amphenol Commercial Products

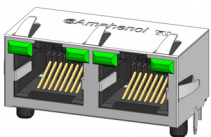
Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

### Related Products

#### RJHSE

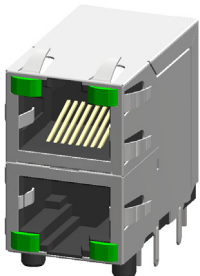


P/N RJHSE-3081 SHOWN  
SINGLE PORT VERTICAL MOUNT,  
NO SHIELD, WITH LEDs

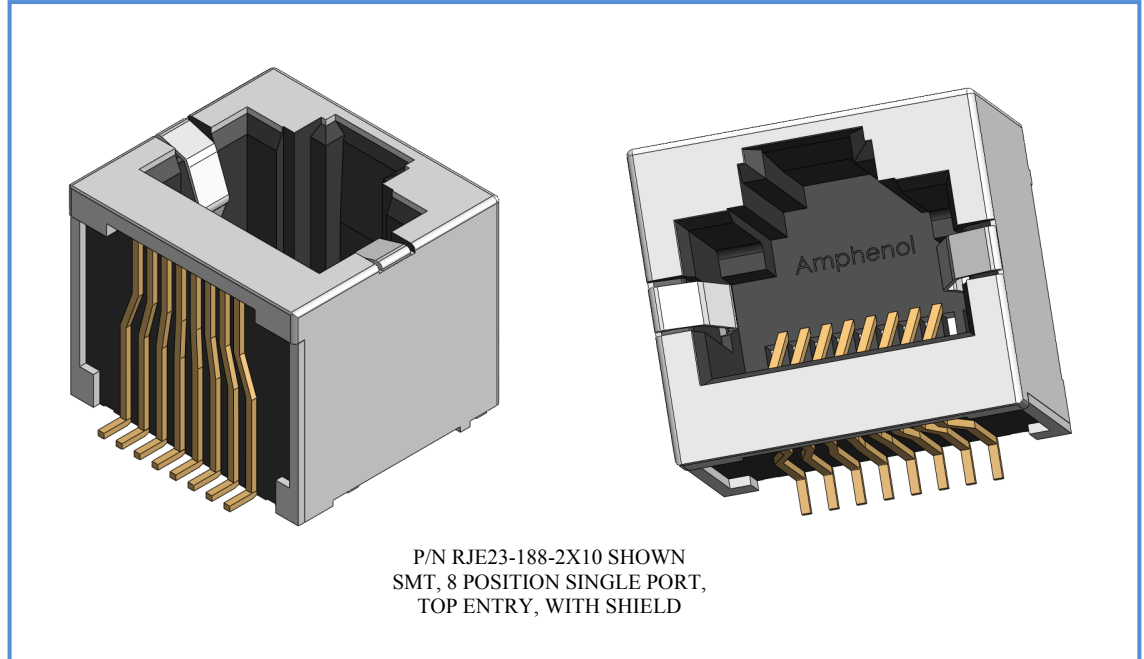


P/N RJHSE-5385-02 SHOWN  
TWO PORT REGULAR MOUNT,  
WITH SHIELD AND LEDs

#### RJSAE



P/N RJSAE-5385-02 SHOWN  
STACKED 2x1, 8 POSITION,  
WITH SHIELD AND LEDs



P/N RJE23-188-2X10 SHOWN  
SMT, 8 POSITION SINGLE PORT,  
TOP ENTRY, WITH SHIELD

### Overview

This product specification defines the general use and performance parameters for Amphenol's RJE23 Top Entry, Surface Mount Modular Jack.

Availability: 8 Position, Single port, shielded version currently under development.

### Usage

The RJE23 Top Entry, Surface Mount Modular Jack supports Ethernet Protocols. Shielding provides increased EMI performance.

### Applications

Intended for use in applications such as:  
Networking & Telecom

- Wireless (WiMAX)
- Network servers
- Hubs, routers, switches

Office & Home Equipment

- PC's, Laptops, Copiers/Printers
- Telephones, modems
- Surge Protectors
- ATMs, Vending Machines

Consumer Goods

- Security Systems
- Set Top Boxes
- Video Game Systems

Miscellaneous

- Multi-Media Equipment
- Industrial Equipment
- POS Terminals

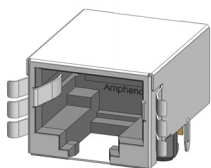
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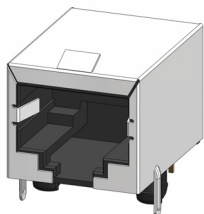
## Related Products

### RJULE



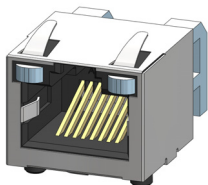
P/N RJULE-4X182-01 SHOWN  
SINGLE PORT REGULAR MOUNT,  
STANDARD SHIELD WITH SMT

### FRJAE



P/N FRJAE-418 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH FERRITE FILTER AND  
SHIELD (FRONT TABS)

### RJSSE



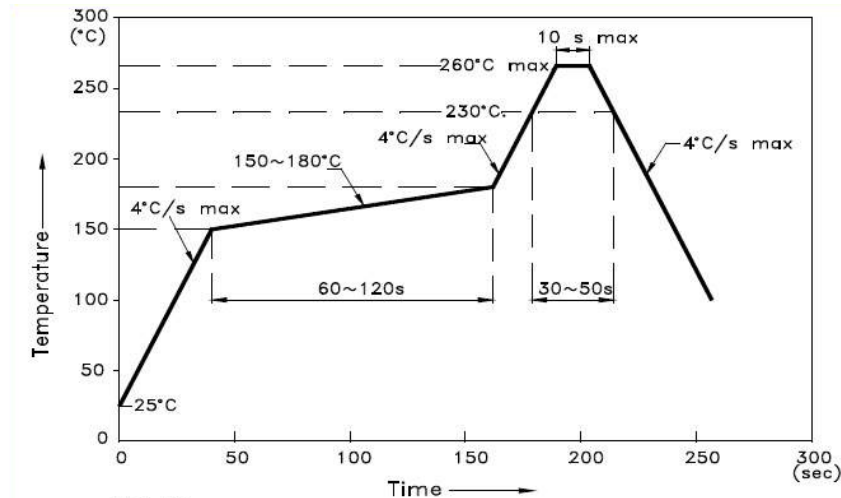
P/N RJSSE-5081 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LIGHT PIPE

## Electrical Characteristics

|                        |  |
|------------------------|--|
| Contact resistance:    | 20 mΩ max.                                   |
| Insulation resistance: | 500 MΩ minimum at 500V DC for 2 minutes max. |
| Current rating:        | 1.5 Amps                                     |
| Voltage rating:        | 125 Volts AC                                 |
| DWV                    | 1000 VAC, 60 Hz. 1 min.                      |

## Mechanical Characteristics

Mating connector insertion force: 5.0 lbs. Maximum.  
Mating connector pull retention force: 20 lbs Minimum.  
Durability: 750 mating & unmating cycles  
Connector is suitable for IR reflow.  
Recommended soldering temperature: Lead free reflow soldering up to 260° C for 10 seconds.  
Refer to recommended reflow profile below. A maximum of three reflow passes are permitted.  
Refer to J-STD-033 for safe handling procedures for SMD's.



Operating temperature: -55° C to +85° C

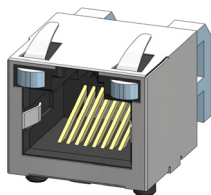
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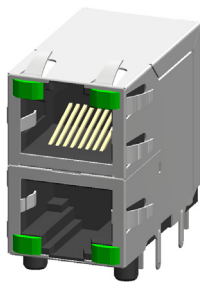
## Related Products

### RJSSE



P/N RJSSE-5081 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LIGHT PIPE

### RJSAR



P/N RJSAR-5385-02 SHOWN  
STACKED 2x1, 8 POSITION,  
WITH SHIELD AND LEDs

## Material Requirements

RJE23 connectors are RoHS compliant.

Unless otherwise specified, the materials for each component shall be:

Insulator:

- High Temp thermoplastic. Complies with UL 94V-0, Black color

Contacts:

- Phosphor Bronze hard temper with gold thickness options (6 $\mu$ "", 15 $\mu$ "", 30 $\mu$ "", 50 $\mu$ "") over 50 $\mu$ " minimum Nickel on contact mating area.
- 100 $\mu$ " minimum matte tin over nickel on soldering tail

Shield:

- Copper alloy, Matte tin plating

Hold Down:

- Copper alloy, Matte Tin plating

Coplanarity:

- Maximum gap between all terminal tails is .004"

## Available Documents

### Drawing Numbers:

|                  |   |
|------------------|---|
| P-RJE23-188-2X10 | SMT, Single Port, Top Entry 8 Position Modular Jack, Shielded   |
| P-RJE23-166-0X10 | SMT, Single Port, Top Entry 6 Position Modular Jack, Unshielded |
| P-RJE23-144-0X10 | SMT, Single Port, Top Entry 4 Position Modular Jack, Unshielded |

Contact factory or Authorized Amphenol representative for additional configurations