

# MODULAR JACKS



**Amphenol**<sup>®</sup>  
[www.rjvista.com](http://www.rjvista.com)

# Contents

Amphenol Data/Telecom Products Group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation, is an ISO 9001 certified facility located in Toronto, Canada. Our activities are dedicated to the design, development and manufacture of interconnect products intended for use in the data communications and telecommunications markets. Our expertise in understanding and supporting our customers' interconnect needs has earned Amphenol Canada a

reputation of quality and excellence among the world's leading users of electronic components.

This Modular Jack catalog represents some of our more popular products within this product category. Other product categories include, but are not limited to: D-Sub, Micro-Ribbon, USB, RF, Fiber-Optic, DIN 41612, mini-DIN, Headers and Sockets, Firewire, SCSI, VHDCI and Filtered Connector products.

## *RJ Vista*

**EMI Quiet with LEDs**

**Single Port**

**Multi Port**

**RJSS**

**Stacked**

|             |             |
|-------------|-------------|
| <b>RJHS</b> | <b>1-2</b>  |
| <b>RJHS</b> | <b>3-4</b>  |
| <b>RJHS</b> | <b>5-6</b>  |
| <b>RJSS</b> | <b>7-8</b>  |
| <b>RJSA</b> | <b>9-10</b> |

## *Filtered & Shielded*

**Single Port**

**Multi Port**

|                 |              |
|-----------------|--------------|
| <b>FRJ/FRJA</b> | <b>11-12</b> |
| <b>FRJA</b>     | <b>13</b>    |

## *EMI Quiet*

**6 Position**

|             |              |
|-------------|--------------|
| <b>RJ01</b> | <b>14-15</b> |
|-------------|--------------|

## *Right Angle*

**Single Port High Profile**

**Single Port Low Profile**

**Single Port Ultra Low Profile**

**Multi Port Full Shield**

|              |              |
|--------------|--------------|
| <b>RJA02</b> | <b>16</b>    |
| <b>RJA03</b> | <b>17</b>    |
| <b>RJA05</b> | <b>18</b>    |
| <b>RJA09</b> | <b>19-20</b> |

## *Top Entry*

**Single Port Slim Profile**

**Single Port Standard Profile**

|              |           |
|--------------|-----------|
| <b>RJA06</b> | <b>21</b> |
| <b>RJA08</b> | <b>22</b> |

## *Surface Mount*

**Single Port**

**Single Port Low Profile**

|              |              |
|--------------|--------------|
| <b>RJA07</b> | <b>23-24</b> |
| <b>RJA15</b> | <b>25</b>    |

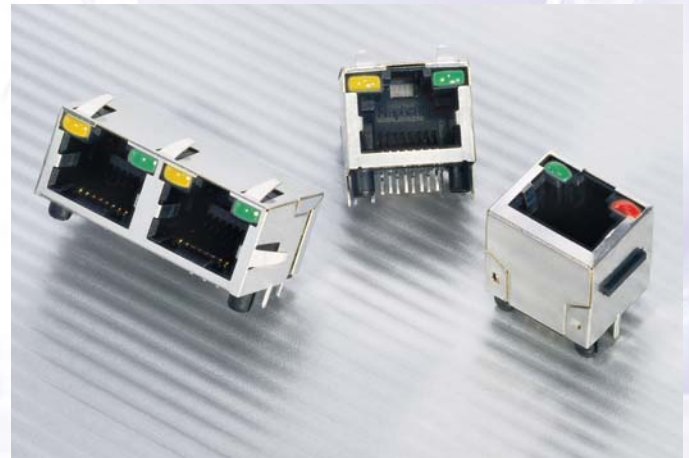
NOTICE: Specifications are subject to change without notice. Contact your nearest Amphenol sales office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions

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## EMI Quiet Modular Jacks with LED's



is a family of EMI Quiet Modular Jack Connectors with built-in LEDs, meets Ethernet CAT 5 performance. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non-shielded versions are available, with a variety of LED colors, and ports.



## Specifications

### MATERIAL

**Shield:** Copper Alloy; Tin/Lead Plated  
**Contacts:** Phosphor Bronze; Gold over Nickel  
**Insert:** Solder reflow process compatible (Complies with UL 94V-0)

### ELECTRICAL

**Contact Resistance:** 20 milliohms maximum  
**Insulation Resistance:** 500 megohms minimum  
**Current Rating:** 1.5 Amps  
**Voltage Rating:** 125 Volts AC  
**Dielectric Withstanding Voltage:** 1000 VAC, RMS. 60 Hz. 1 min.

### Standard LEDs: For 5.0 V Systems

**Forward Voltage:** 2.1 Volts Typical  
**Reverse Voltage:** 6.0 Volts minimum  
**Luminous Intensity:** 0.5 mCd minimum (at If=2mA)

### Low Current LEDs: For 3.3 V Systems

**Forward Voltage:** 2.0 Volts Typical  
**Reverse Voltage:** 6.0 Volts minimum  
**Luminous Intensity:** 1.0 mCd minimum (at If=2mA)

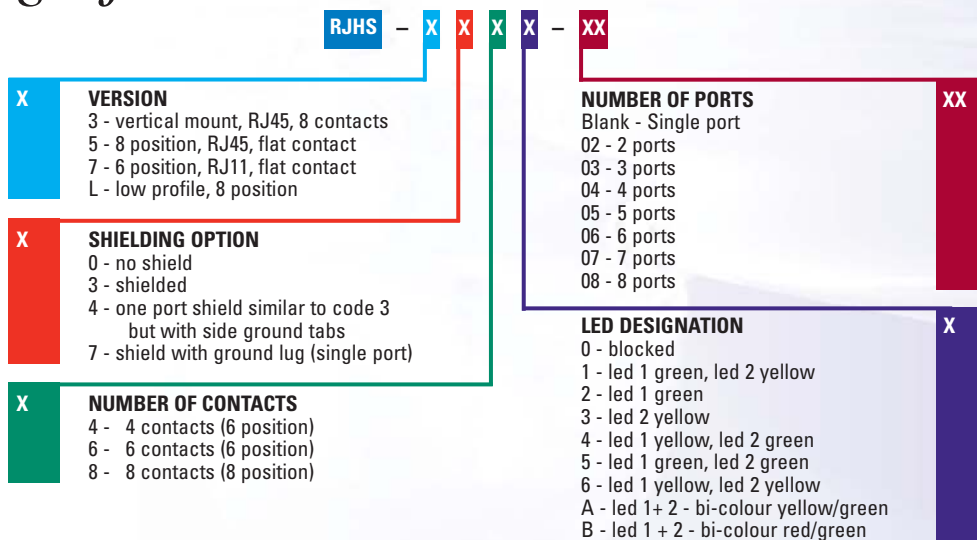
### Other Parameters:

**Storage Temperature:** -20° C to 85° C  
**Lead Soldering Temperature:** 260° C (5 sec)  
**Plating on Tails:** Tin-Lead (90-10) alloy

**UL File # :** E135615

**CSA File # :** LR68598

## Ordering Information



Options for style, shield & contacts available.  
 Contact Amphenol Canada for more information

For additional colour combinations  
 refer to Chart RJHS Page 2

# RJHS Series

RJ  
vista™

EMI QUIET - WITH LEDS

## LED Designation

RJHS - 538 1\* - 08

### \* LED DESIGNATION CODE

| LED CODE | LED 2 Left                                        | LED 1 Right |
|----------|---------------------------------------------------|-------------|
| 0        | Blocked                                           | Blocked     |
| 1        | Yellow                                            | Green       |
| 2        | Blocked                                           | Green       |
| 3        | Yellow                                            | Blocked     |
| 4        | Green                                             | Yellow      |
| 5        | Green                                             | Green       |
| 6        | Yellow                                            | Yellow      |
| 7        | Red                                               | Green       |
| 8        | Green                                             | Red         |
| 9        | Green                                             | Blocked     |
| A        | BiC Gr/YI                                         | BiC Gr/YI   |
| B        | BiC Rd/Gr                                         | BiC Rd/Gr   |
| C        | BiC Rd/Gr                                         | BiC Gr/YI   |
| D        | Green                                             | BiC Gr/YI   |
| E        | Yellow                                            | BiC Gr/YI   |
| F        | BiC Gr/YI                                         | Yellow      |
| G        | BiC Gr/Or                                         | BiC Gr/Or   |
| H        | BiC Gr/YI                                         | Green       |
| J        | BiC Rd/Gr                                         | Yellow      |
| K        | Yellow                                            | BiC Gr/Or   |
| L        | BiC Rd/Gr                                         | Red         |
| M        | Red                                               | Yellow      |
| N        | BiC Gr/Rd                                         | BiC Gr/YI   |
| P        | Green                                             | BiC Rd/Gr   |
| R        | BiC Gr/Or                                         | Green       |
| T        | Red                                               | Red         |
| V        | BiC Rd/Gr                                         | Green       |
| W        | Special Designation<br>(add digit to part number) |             |
| Z        |                                                   |             |

RJHS - 538 W - 08 2\*

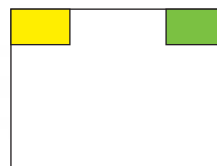
### \* SPECIAL LED DESIGNATION

| SPECIAL DESIGNATION | LED 2 Left          | LED 1 Right |
|---------------------|---------------------|-------------|
| 0                   | See standard Design |             |
| 1                   | Red                 | Blocked     |
| 2                   | BiC Gr/YI           | Yellow      |
| 3                   | Yellow              | Red         |
| 4                   | Blocked             | Red         |
| 5                   | Blocked             | Yellow      |
| 6                   | Red                 | BiC Gr/YI   |
| 7                   |                     |             |
| 8                   |                     |             |
| 9                   |                     |             |

### LOW CURRENT LED OPTIONS

|   |        |        |
|---|--------|--------|
| A | Yellow | Yellow |
| B | Yellow | Green  |
| C | Green  | Yellow |
| D | Green  | Green  |

LED 2

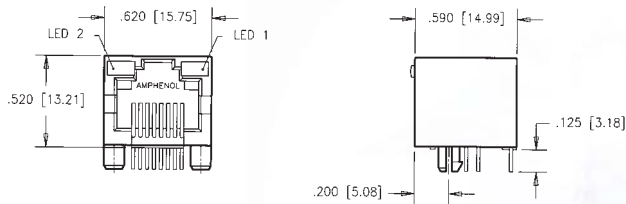


LED 1

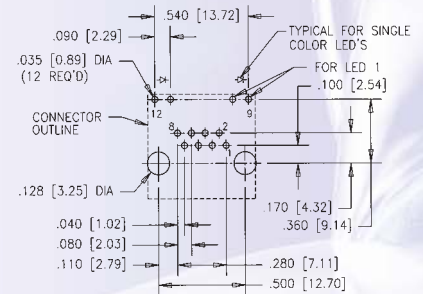
\* Contact Amphenol Canada for more information

## Single Port

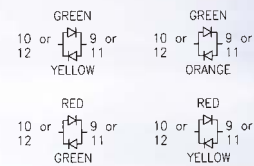
### NON-SHIELDED



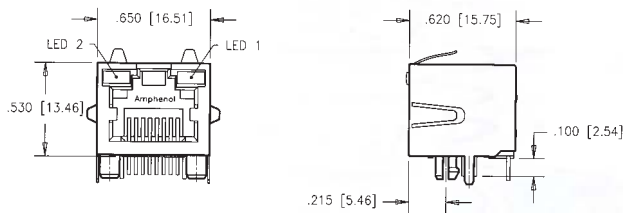
### PCB LAYOUT



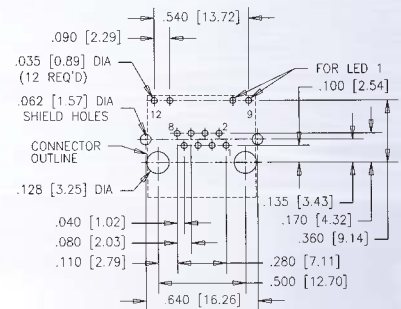
### BI-COLOUR LEDS



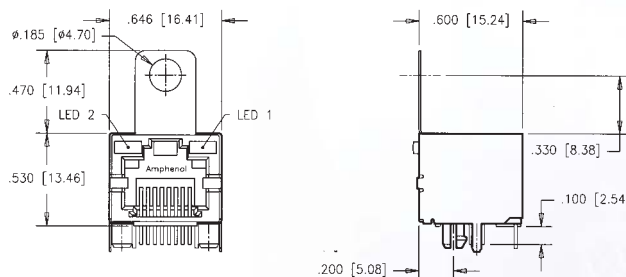
### SHIELDED WITH TOP & SIDE GROUND TABS



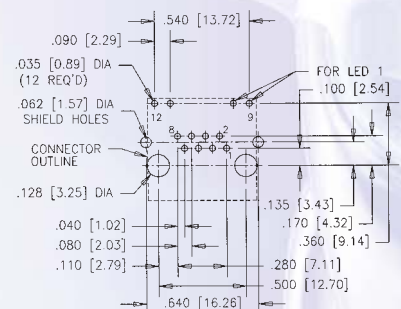
### PCB LAYOUT



### SHIELDED WITH GROUND LUG



### PCB LAYOUT

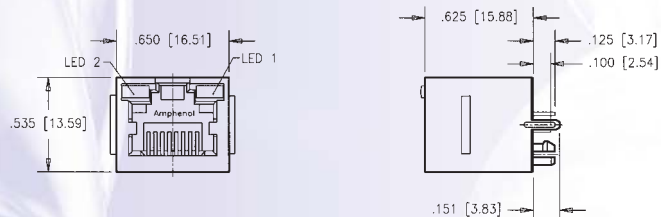


# RJHS Series

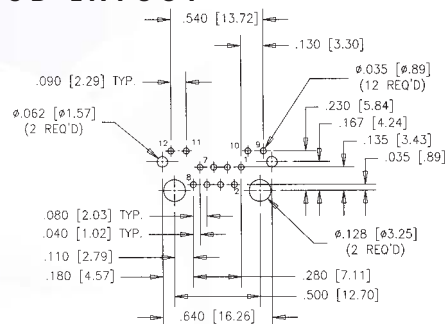
RJ  
vista™

EMI QUIET - WITH LEDS

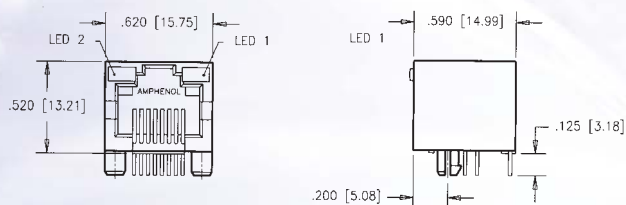
## VERTICAL MOUNT SINGLE PORT ONLY



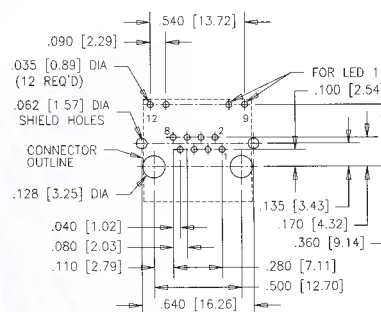
## PCB LAYOUT



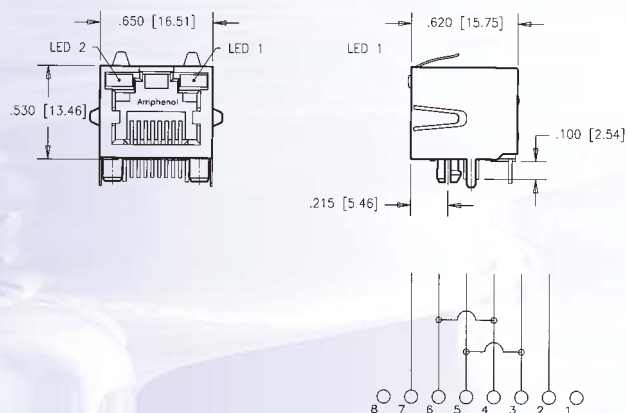
## LOW PROFILE SINGLE & 2 PORT



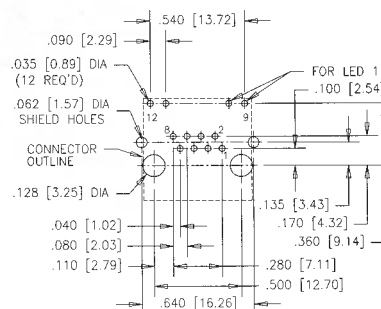
## PCB LAYOUT



## SHORTING BARS SINGLE & 2 PORT



## PCB LAYOUT



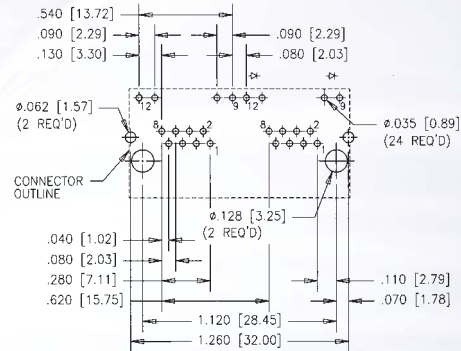
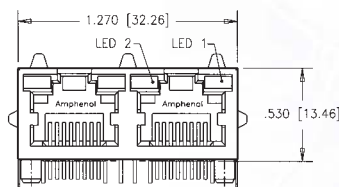
SHORTING BARS (CIRCUIT)

## EMI Quiet Modular Jacks with LED's Multiport

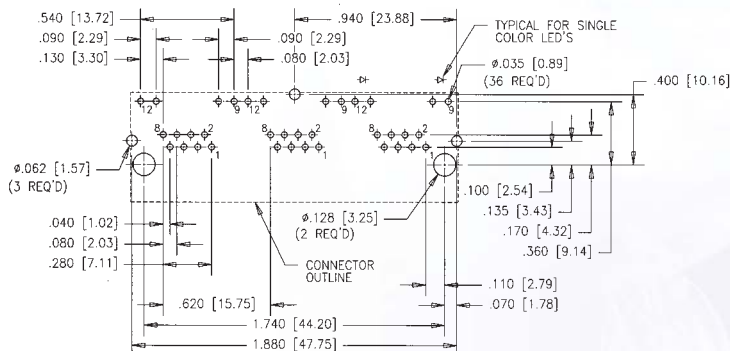
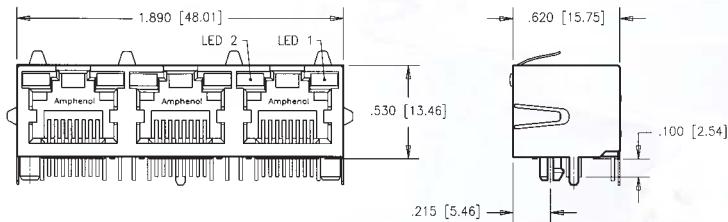
RJ vista™ is a family of EMI Quiet Modular Jack Connectors with built-in LEDs, designed for Category 5 ethernet performance. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non-shielded versions are available, with a variety of LED colors, and ports.



### SHIELDED 2 PORT



### SHIELDED 3 PORT

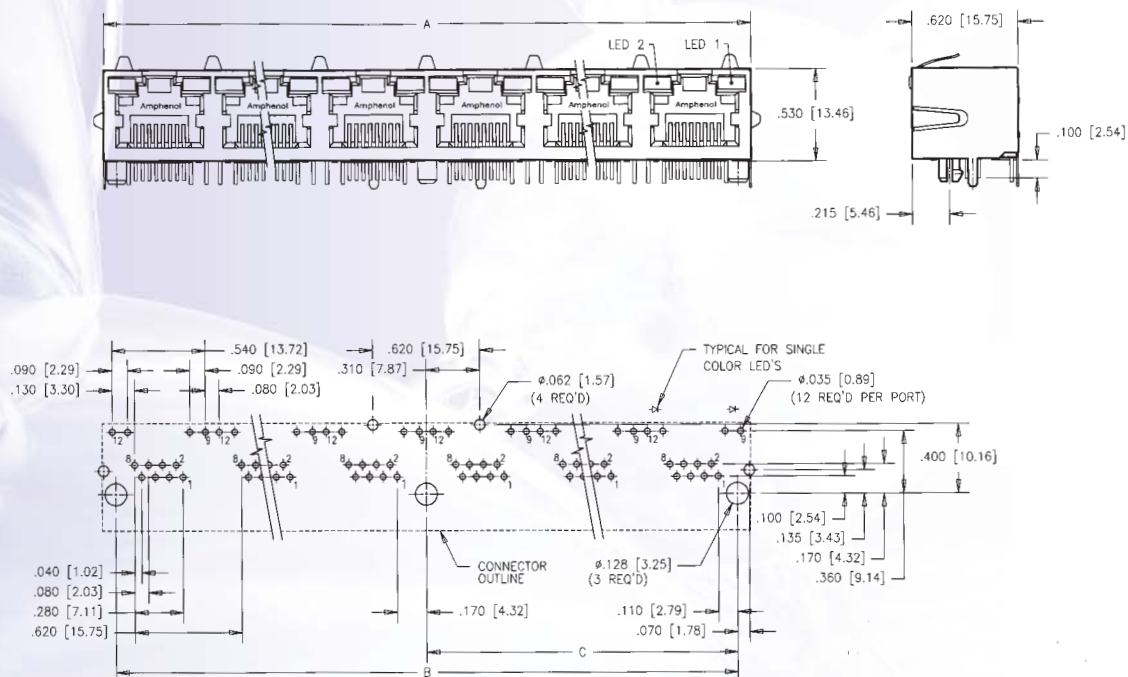


# RJHS Series

RJ  
vista™

EMI QUIET - WITH LEDS

**SHIELDED** WITH TOP AND SIDE GROUND TABS (AVAILABLE IN MULTI-PORT)

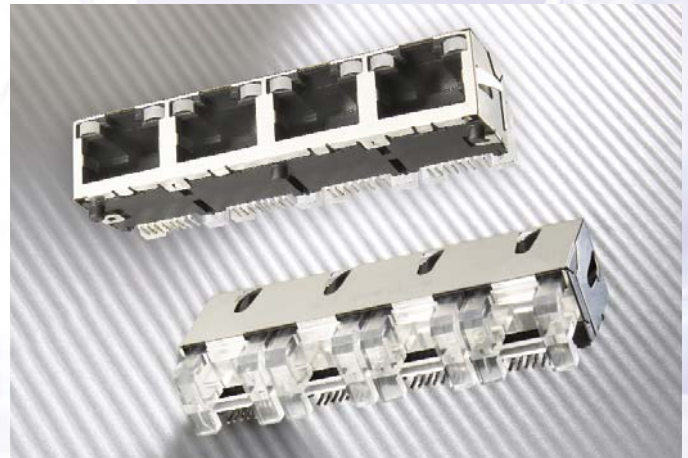


| Number of ports | A             | B             | C            |
|-----------------|---------------|---------------|--------------|
| 2               | see page 5    | see page 5    | see page 5   |
| 3               | see page 5    | see page 5    | see page 5   |
| 4               | 2.510[63.75]  | 2.360[59.94]  | 1.180[29.97] |
| 6               | 3.750[95.25]  | 3.600[91.44]  | 1.800[45.72] |
| 8               | 4.990[126.75] | 4.840[122.94] | 2.420[61.47] |

### RJSS: SMT Connector with Light Pipes

Amphenol Canada's RJSS series represents an expansion of our current RJHS series connector. The RJSS offers all the benefits of the RJHS series in SMT. This connector meets Cat 5 Ethernet Performance.

Shielded and unshielded versions are available with or without light pipe option.



### Specifications

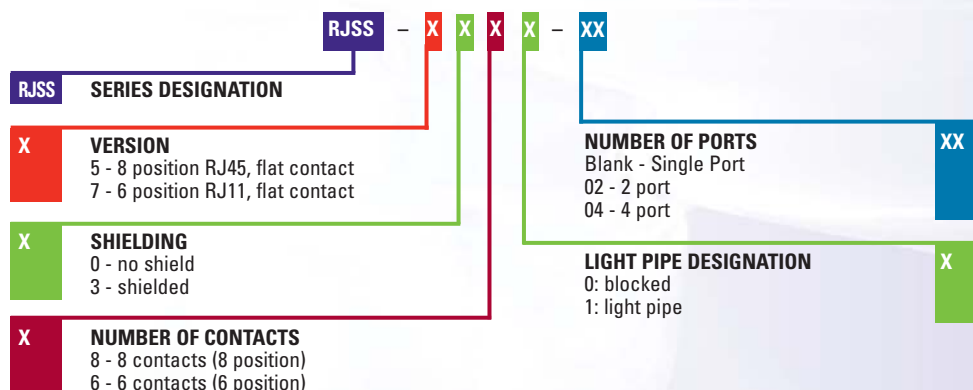
#### MATERIAL

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| <b>Shield:</b>   | Copper Alloy; Tin/Lead Plated                                                      |
| <b>Contacts:</b> | Phosphor Bronze; Gold Plated over Nickel on mating area, Tin lead on the terminals |
| <b>Insert:</b>   | Phosphor Bronze; Gold over Nickel (Complies with UL 94V-0)                         |

#### ELECTRICAL

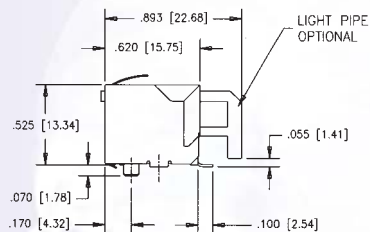
|                                         |                              |
|-----------------------------------------|------------------------------|
| <b>Contact Resistance:</b>              | 20 milliohms maximum         |
| <b>Insulation Resistance:</b>           | 500 megohms minimum          |
| <b>Current Rating:</b>                  | 1.5 Amps                     |
| <b>Voltage Rating:</b>                  | 125 Volts AC                 |
| <b>Dielectric Withstanding Voltage:</b> | 1500 VAC, RMS. 60 Hz. 1 min. |
| <b>Other Parameters:</b>                |                              |
| Storage Temperature:                    | -20°C to +85°C               |
| Plating on Tails:                       | Tin/Lead (90-10) Alloy       |

### Ordering Information

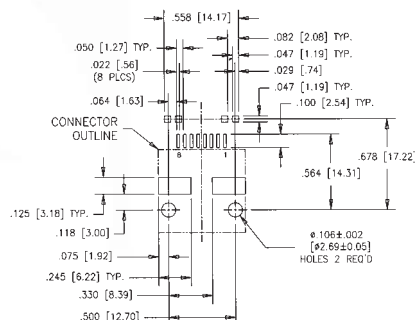


## SMT CONNECTOR

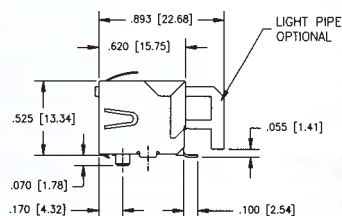
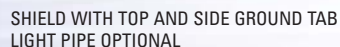
**R J S S - 5381**



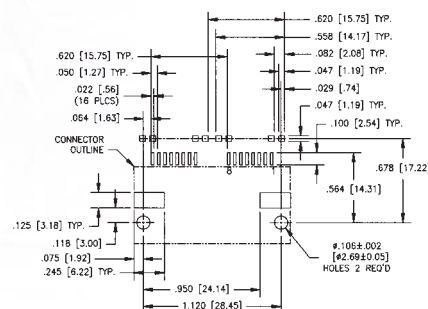
## PCB LAYOUT



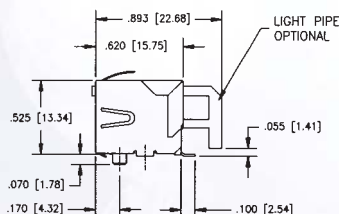
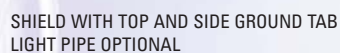
**R J S S - 5 3 8 1 - 0 2**



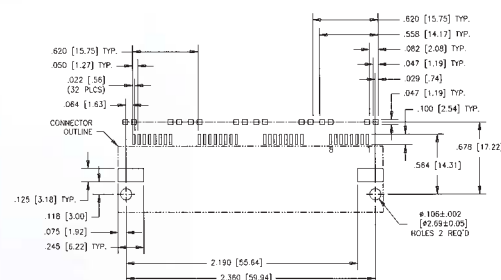
## PCB LAYOUT



**R J S S - 5 3 8 1 - 0 4**



## PCB LAYOUT



## Amphenol RJ45 Stackable

Reduces component and labour costs by incorporating LED's into the connector.

Meets Ethernet CAT 5 Performance

Stackable feature enables more ports with same board space.

For superior EMI performance, the option of configuring your connector with a ferrite filter is available.

Amphenol offers a wide variety of options:

- Ferrite filter
- Shielded & unshielded versions
- Variety of LED combinations
- Variety of ports



## Specifications

### MATERIAL

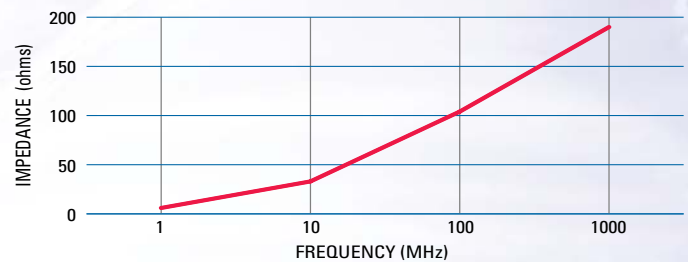
Please refer to RJHS specifications on page 1.

### ELECTRICAL

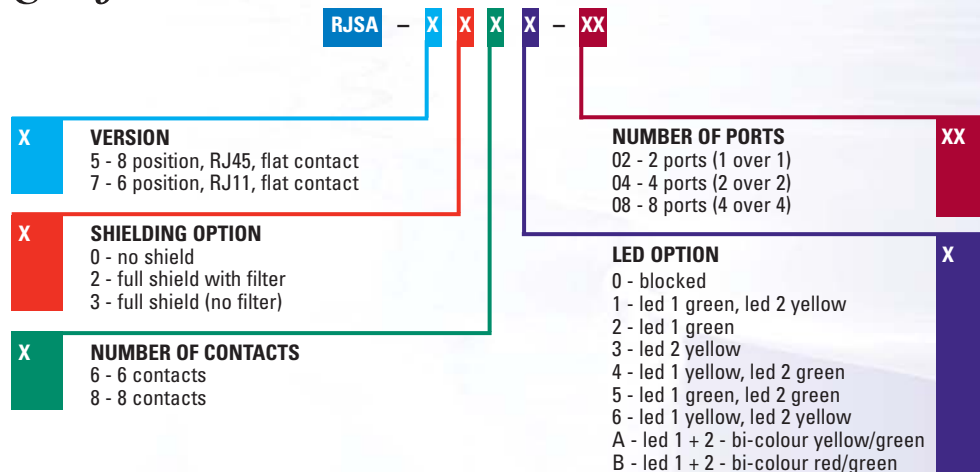
UL File #: E135615

CSA File #: 150190

## Impedance Characteristics



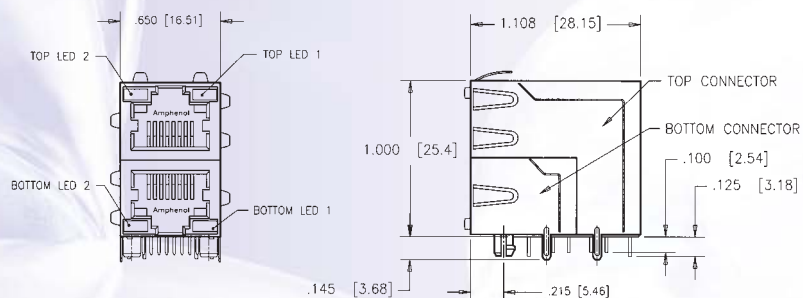
## Ordering Information



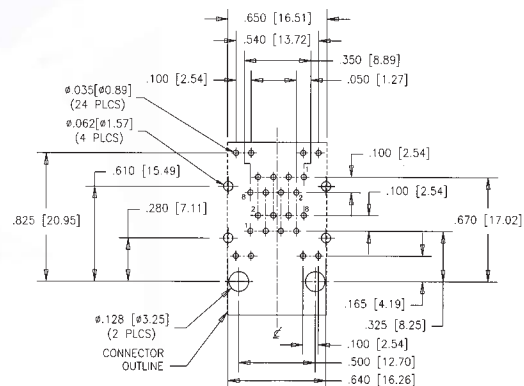
\* Filtering available - Please contact Amphenol for more information  
\*\* additional LED codes available - see page 2

**STACKED RJ VISTA™**

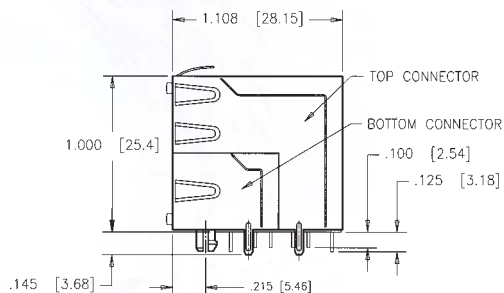
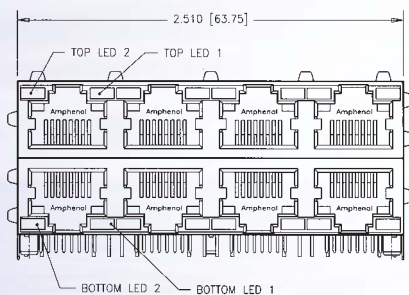
**2 x 1 RJ45 / RJ11**



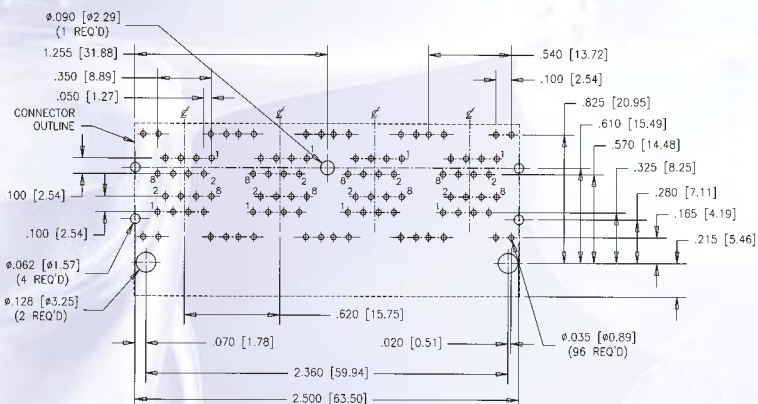
## PCB LAYOUT



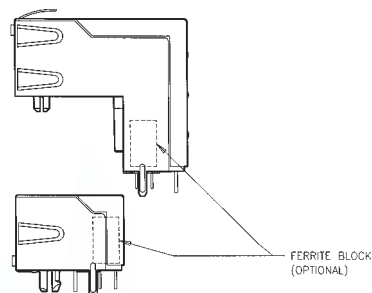
**2X4 RJ45/RJ11**



## PCB LAYOUT



## ASSEMBLY



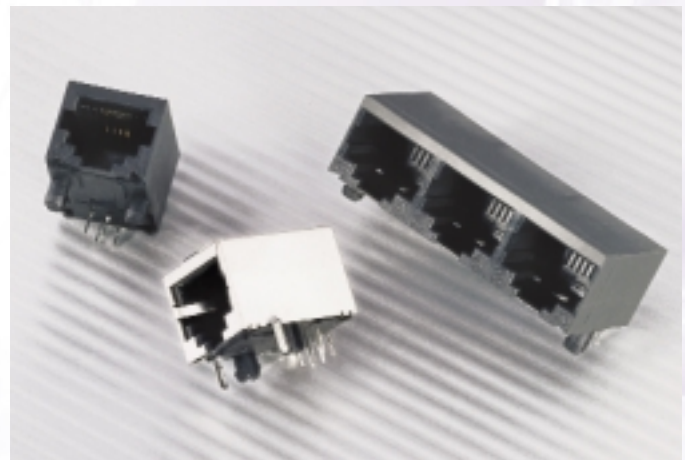
## STACKABLE MODULAR JACK ASSEMBLY

# FRJ/FRJA Series

FILTERED & SHIELDED

## Modular Jack with Superior EMI Performance

The FRJ and FRJA series of shielded and filtered modular jacks offer low cost and effective EMC control within standard RJ-11 and RJ-45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impedance ferrite block. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



## Specifications

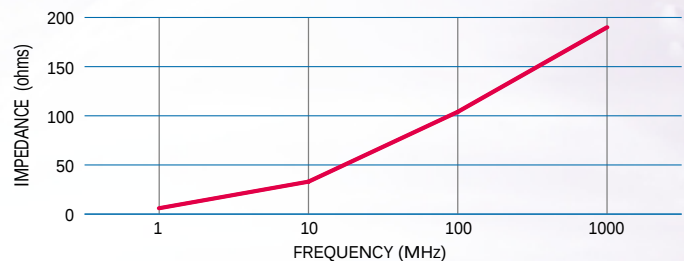
### MATERIAL

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| <b>Shield:</b>   | Copper Alloy; Tin/Lead Plated                                                                         |
| <b>Contacts:</b> | Phosphor Bronze; Gold over 30μ inches (0.76 microns) over Ni                                          |
| <b>Insert:</b>   | For FRJ, High Temperature Resistant Nylon. For FRJA, Thermoplastic Polyester (Complies with UL 94V-0) |
| <b>Filter:</b>   | High Impedance, High Resistivity, Ferrite Block                                                       |

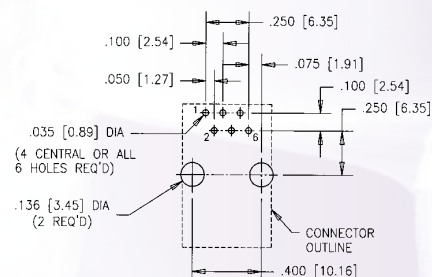
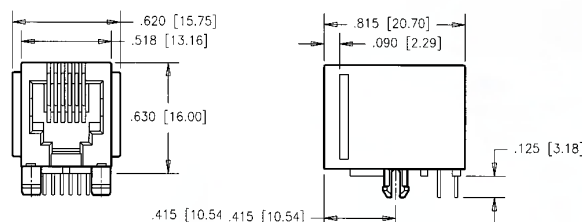
### ELECTRICAL

|                               |                      |
|-------------------------------|----------------------|
| <b>Contact Resistance:</b>    | 20 Milliohms maximum |
| <b>Insulation Resistance:</b> | 500 Megaohms minimum |
| <b>Current Rating:</b>        | 1.5 Amps             |
| <b>Voltage Rating:</b>        | 125 Volts AC         |
| <b>UL File # :</b>            | E135615              |
| <b>CSA File #:</b>            | LR68598              |

## Impedance Characteristics



## 6 Position Filtered - High Profile



### 4 Contacts:

|                |         |
|----------------|---------|
| Standard Jack: | FRJ-104 |
| Filtered:      | FRJ-144 |

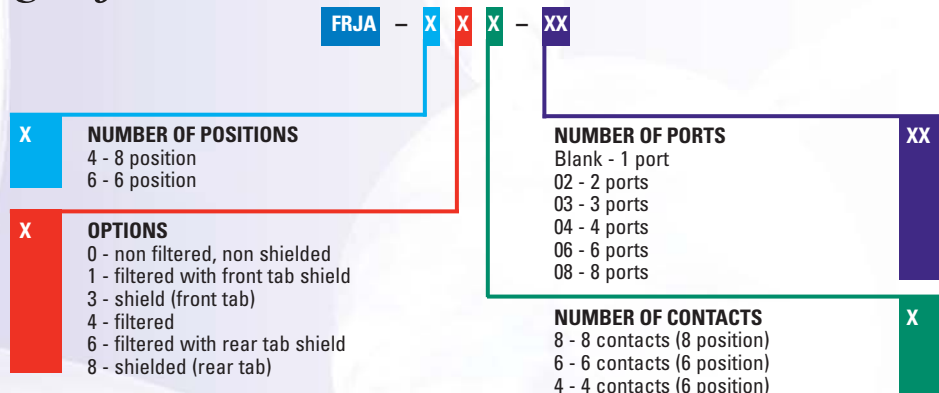
### 6 Contacts:

|                |         |
|----------------|---------|
| Standard Jack: | FRJ-106 |
| Filtered:      | FRJ-146 |

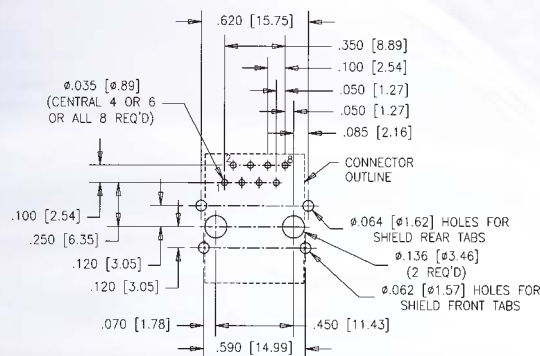
# FRJA Series

**FILTERED & SHIELDED**

## Ordering Information

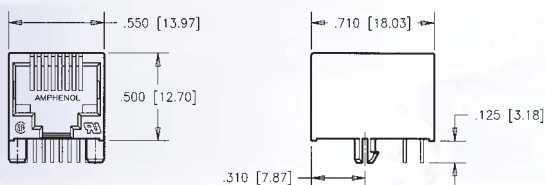


## PCB LAYOUT

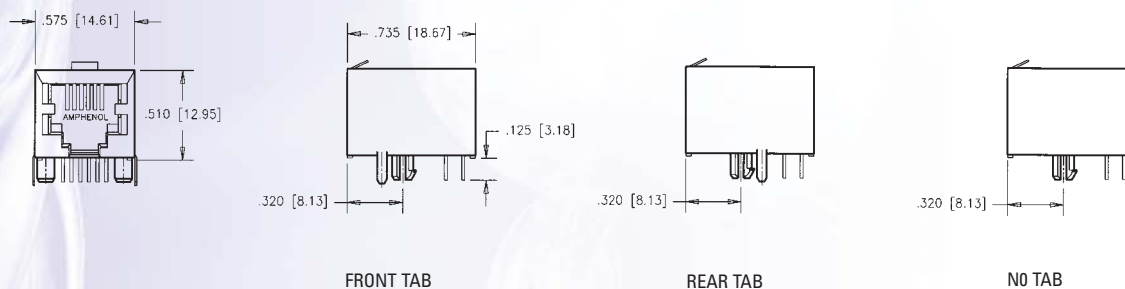


## Single Port (8 & 6 position)

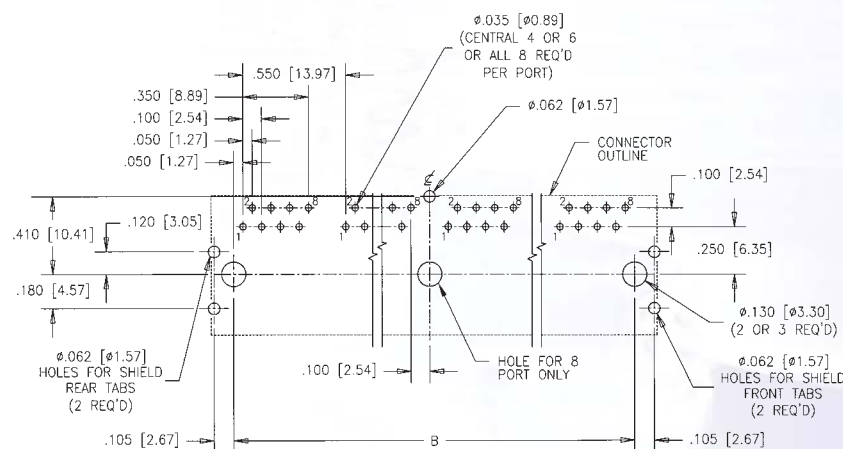
### NON-SHIELDED



### SHIELDED



## NON-SHIELDED

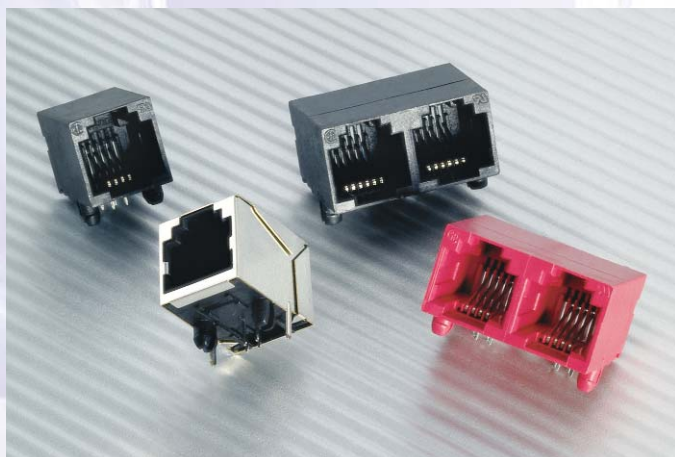


| Number of ports | A             | B             | C             |
|-----------------|---------------|---------------|---------------|
| 2               | 1.200[30.48]  | 1.000[25.40]  | 1.230[31.24]  |
| 4               | 2.300[58.42]  | 2.100[53.34]  | 2.330[59.18]  |
| 6               | 3.400[86.36]  | 3.200[81.28]  | 3.430[87.12]  |
| 8               | 4.500[114.30] | 4.300[109.22] | 4.530[115.06] |

# RJ01 Series

EMI QUIET - 6 POSITION

MODEM CONNECTORS



## Modular Jack with Superior EMI Performance

The RJ01 series of 6-position jacks are designed for superior EMI performance. The inverted connector provides shorter leads, eliminating the EMI antenna effect of the standard connector footprint. Typical performance improvement over their standard connector counterparts is 5-10 dB over the frequency range.

## Specifications

### MATERIAL

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| <b>Housing:</b>         | High Temperature Resistant Nylon<br>Flammability rating UL94V-0                            |
| <b>Contacts:</b>        | Phosphor Bronze                                                                            |
| <b>Contact Plating:</b> | 50 $\mu$ inches (1.27 microns) Gold Over Nickel<br>On Mating Area, Tin-Lead Alloy On Tails |

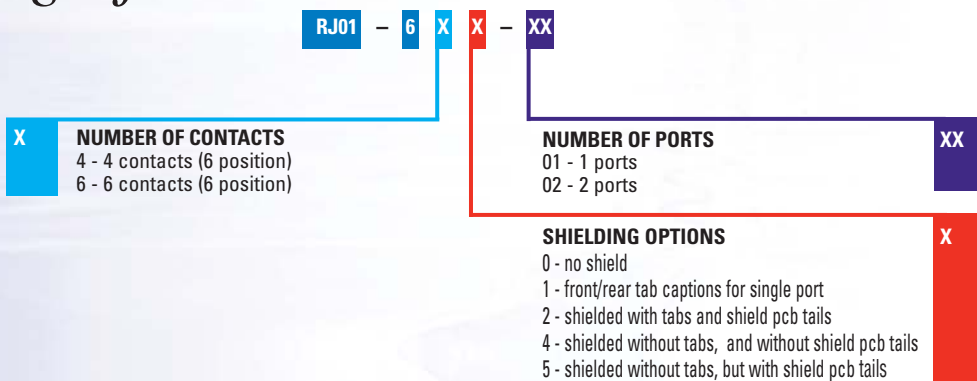
### Shield:

Copper Alloy, Tin-Lead Alloy Plated

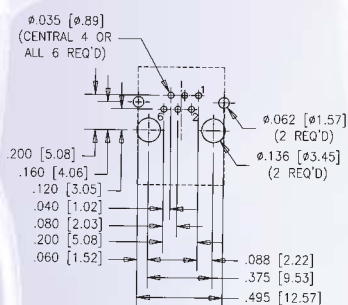
### ELECTRICAL

|             |         |
|-------------|---------|
| <b>UL#</b>  | EI35615 |
| <b>CSA#</b> | LR68598 |
| <b>EN#</b>  | 60950   |

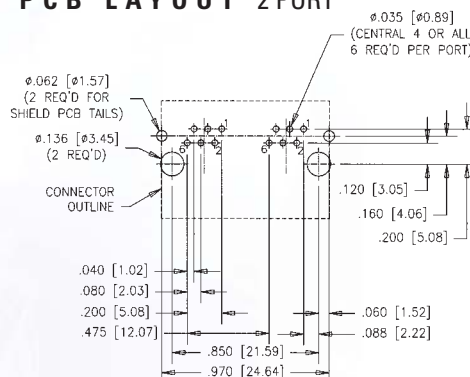
## Ordering Information



### PCB LAYOUT SINGLE PORT



### PCB LAYOUT 2 PORT

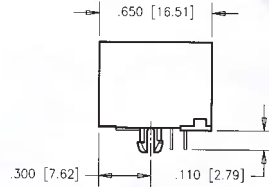
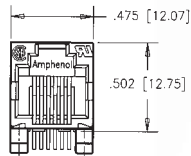


# RJ01 Series

EMI QUIET - 6 POSITION

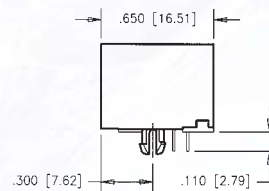
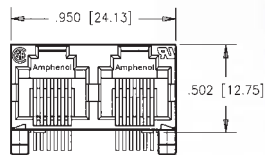
## Single Port

### NON-SHIELDED

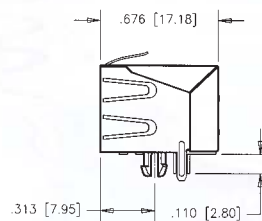
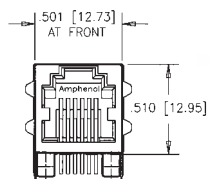


## 2 Port

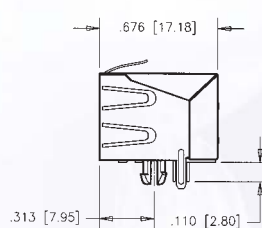
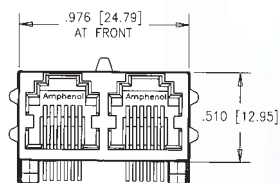
### NON-SHIELDED



### SHIELDED

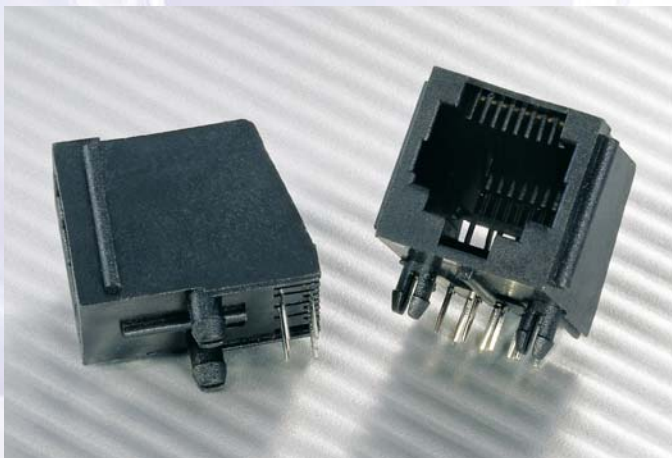


### SHIELDED



# RJA02 Series

HIGH PROFILE - SINGLE PORT



## Specifications

### MATERIAL

#### Housing:

High Strength Thermoplastic  
Polyester Flammability Rating  
UL94V-0

#### Contacts:

Phosphor Bronze

#### Contact Plating:

Gold Over Nickel On Mating  
Area, Tin-Lead Alloy On Tails

### ELECTRICAL

#### UL File #:

E136228

## Ordering Information

RJA02 - 1 X X - 0 X X 0

X

#### NUMBER OF POSITIONS

8 - 8 position  
6 - 6 position  
4 - 4 position

X

#### NUMBER OF CONTACTS

8 - 8 contacts (8 position)  
6 - 6 contacts (6 position)  
4 - 4 contacts (4 or 6 position)

#### OPTIONS

1 - without flanged  
2 - flanged

X

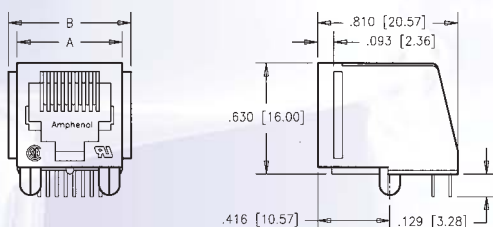
#### GOLD PLATING

1 - 6  $\mu$  inches gold  
2 - 15  $\mu$  inches gold  
3 - 30  $\mu$  inches gold  
4 - 50  $\mu$  inches gold

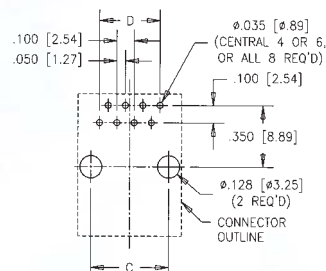
X

## Single Port

### NON-SHIELDED



### PCB LAYOUT



| Number of positions | A           | B           | C           | D          |
|---------------------|-------------|-------------|-------------|------------|
| 4                   | .440[11.18] | .540[13.72] | .300[7.62]  | .150[3.81] |
| 6                   | .520[13.21] | .620[15.75] | .400[10.16] | .250[6.35] |
| 8                   | .600[15.24] | .700[17.78] | .450[11.43] | .350[8.89] |

# RJA03 Series

LOW PROFILE - SINGLE PORT

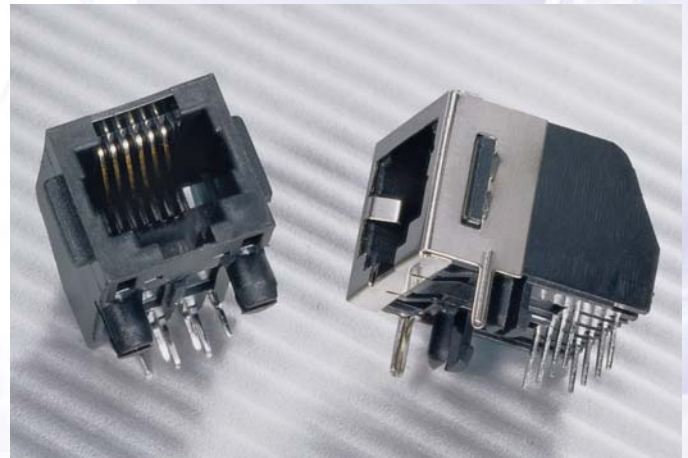
## Material Specifications

### PHYSICAL

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| <b>Housing:</b>         | High Strength Thermoplastic<br>Polyester Flammability Rating<br>UL94V-0 |
| <b>Contacts:</b>        | Phosphor Bronze                                                         |
| <b>Contact Plating:</b> | Gold Over Nickel On Mating<br>Area, Tin-Lead Alloy On Tails             |
| <b>Shield:</b>          | Copper Alloy, Tin-Lead Alloy<br>Plated                                  |

### ELECTRICAL

|                   |         |
|-------------------|---------|
| <b>UL File #:</b> | E136228 |
|-------------------|---------|



## Ordering Information

RJA03 - 1 X X - X X X 0

|          |                                                                                                                             |
|----------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>X</b> | <b>NUMBER OF POSITIONS</b><br>8 - 8 position<br>6 - 6 position                                                              |
| <b>X</b> | <b>NUMBER OF CONTACTS</b><br>8 - 8 contacts (8 position)<br>6 - 6 contacts (6 position)<br>4 - 4 contacts (4 or 6 position) |

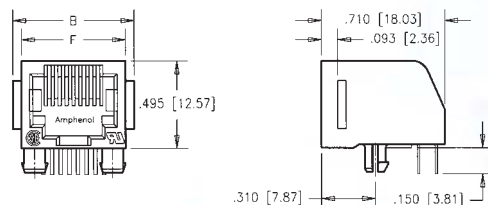
**OPTIONS**  
1 - without flanged  
2 - flanged

**GOLD PLATING**  
1 - 6  $\mu$  inches gold  
2 - 15  $\mu$  inches gold  
3 - 30  $\mu$  inches gold  
4 - 50  $\mu$  inches gold

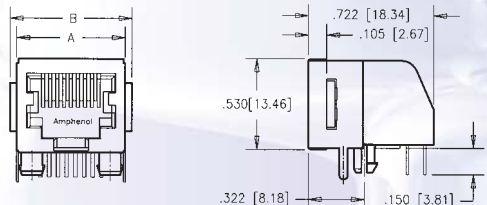
**SHIELDING**  
0 - no shield  
2 - partial shield (must have flange)

## Single Port (8 & 6 Position)

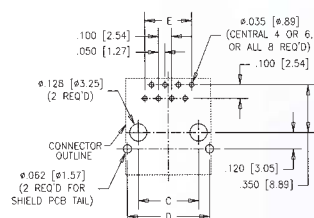
### NON-SHIELDED



### PARTIAL SHIELD



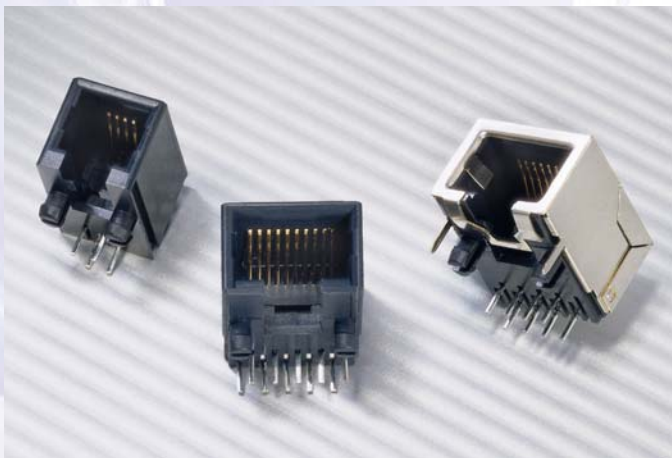
### PCB LAYOUT



| Number of positions | Number of contacts | A               | B               | C               | D               | E              | F               |
|---------------------|--------------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| 6                   | 4                  | .544<br>[13.83] | .620<br>[15.75] | .400<br>[10.16] | .533<br>[13.54] | .150<br>[3.81] | .520<br>[13.21] |
| 6                   | 6                  | .544<br>[13.21] | .620<br>[15.75] | .400<br>[10.16] | .533<br>[13.54] | .250<br>[6.35] | .520<br>[13.21] |
| 8                   | 8                  | .624<br>[15.24] | .700<br>[17.78] | .450<br>[11.43] | .613<br>[15.57] | .350<br>[8.89] | .600<br>[15.24] |

# RJA05 Series

ULTRA LOW PROFILE - SINGLE PORT



## Material Specifications

### PHYSICAL

#### Housing:

High Strength Thermoplastic Polyester  
Flammability Rating UL94V-0

#### Contacts:

Phosphor Bronze

#### Contact Plating:

Gold Over Nickel On Mating Area,  
Tin-Lead Alloy On Tails

#### Shield:

Copper Alloy, Tin-Lead Alloy Plated

### ELECTRICAL

#### UL File #:

E136228

## Ordering Information

RJA05 - 1 X X - X X 1 0

X

#### NUMBER OF POSITIONS

A - 10 position  
8 - 8 position  
6 - 6 position  
4 - 4 position

X

#### NUMBER OF CONTACTS

A - 10 contacts (10 position)  
8 - 8 contacts (8 position)  
6 - 6 contacts (6 position)  
4 - 4 contacts (4 or 6 position)

#### GOLD PLATING

1 - 6  $\mu$  inches gold (0.15 microns)  
2 - 15  $\mu$  inches gold (0.38 microns)  
3 - 30  $\mu$  inches gold (0.76 microns)  
4 - 50  $\mu$  inches gold (1.27 microns)

X

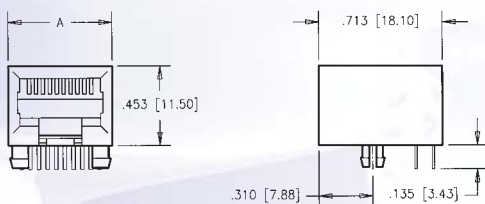
#### SHIELDING

0 - no shield  
1 - full shield

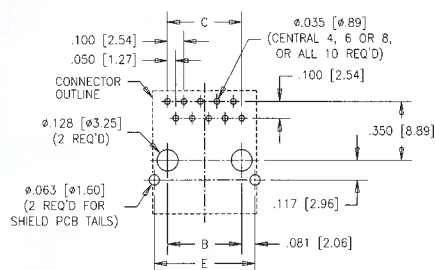
X

## Single Port

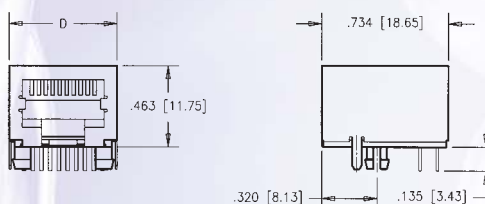
### NON-SHIELDED



### PCB LAYOUT



### SHIELDED



| Number of positions | A           | B           | C           | D           | E           |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| 4                   | .440[11.18] | .300[7.62]  | .150[3.81]  |             |             |
| 6                   | .520[13.21] | .400[10.16] | .250[6.35]  |             |             |
| 8                   | .600[15.24] | .450[11.43] | .350[8.89]  | .620[15.74] | .612[15.54] |
| 10                  | .600[15.24] | .450[11.43] | .450[11.43] | .620[15.74] | .612[15.54] |

# RJA09 Series

FULLY SHIELDED - SINGLE & MULTI PORT

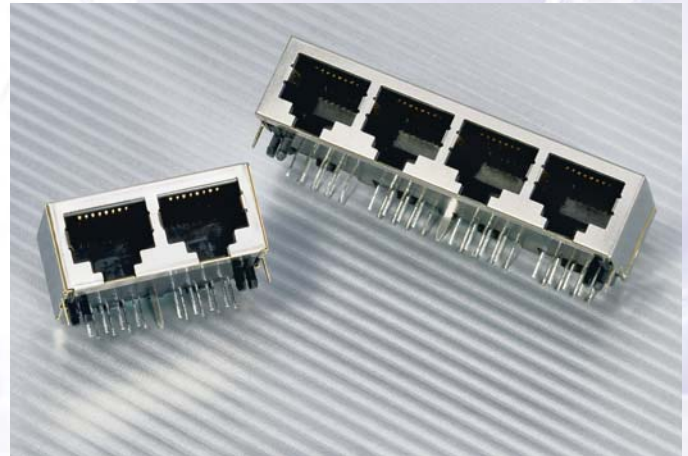
## Specifications

### MATERIAL

|                         |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| <b>Housing:</b>         | High Strength Thermoplastic Polyester<br>Flammability Rating UL94V-0 |
| <b>Contacts:</b>        | Phosphor Bronze                                                      |
| <b>Contact Plating:</b> | Gold Over Nickel On Mating Area, Tin-Lead Alloy On Tails             |
| <b>Shield:</b>          | Copper Alloy, Tin Plated                                             |

### ELECTRICAL

|                    |         |
|--------------------|---------|
| <b>UL File # :</b> | E136228 |
|--------------------|---------|



## Ordering Information

RJA09 - XXX - 1 X 1 0

XXX

#### NUMBER OF POSITIONS

188 - 1 port, 8 position  
1AA - 1 port, 10 position  
288 - 2 port, 8 position  
488 - 4 port, 8 position  
688 - 6 port, 8 position  
888 - 8 port, 8 position  
A88 - 10 port, 8 position  
B88 - 12 port, 8 position

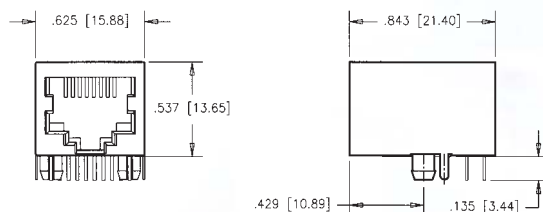
#### GOLD PLATING

1 - 6  $\mu$  inches gold  
2 - 15  $\mu$  inches gold  
3 - 30  $\mu$  inches gold  
4 - 50  $\mu$  inches gold

X

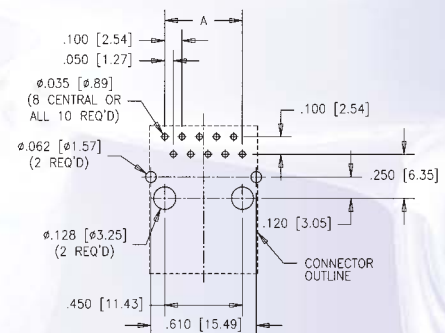
## Single Port (8 & 10 position)

### NON-SHIELDED



| Number of positions | A           |
|---------------------|-------------|
| 8                   | .350[8.89]  |
| 10                  | .450[11.43] |

### PCB LAYOUT

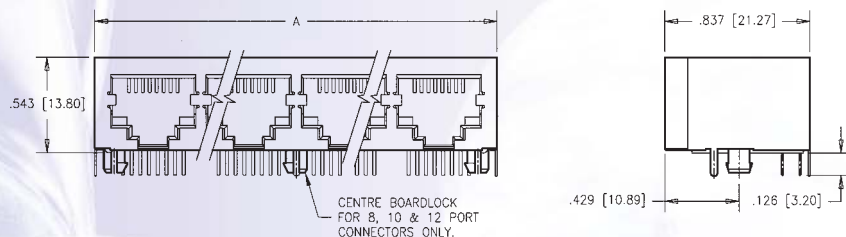


# RJA09 Series

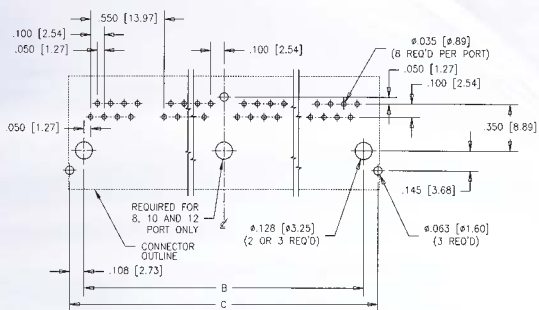
FULLY SHIELDED - SINGLE & MULTI PORT

## Multiport (8 position)

### NON-SHIELDED



### PCB LAYOUT



| Number of ports | A             | B             | C             |
|-----------------|---------------|---------------|---------------|
| 2               | 1.225[31.12]  | 1.000[25.40]  | 1.215[30.87]  |
| 4               | 2.324[59.03]  | 2.100[53.34]  | 2.315[58.81]  |
| 6               | 3.425[87.00]  | 3.200[81.28]  | 3.415[86.75]  |
| 8               | 4.525[114.94] | 4.300[109.22] | 4.515[114.69] |
| 10              | 5.625[142.88] | 5.400[137.16] | 5.615[142.63] |
| 12              | 6.725[170.82] | 6.500[165.10] | 6.715[170.57] |

# RJA06 Series

TOP ENTRY - SLIM PROFILE

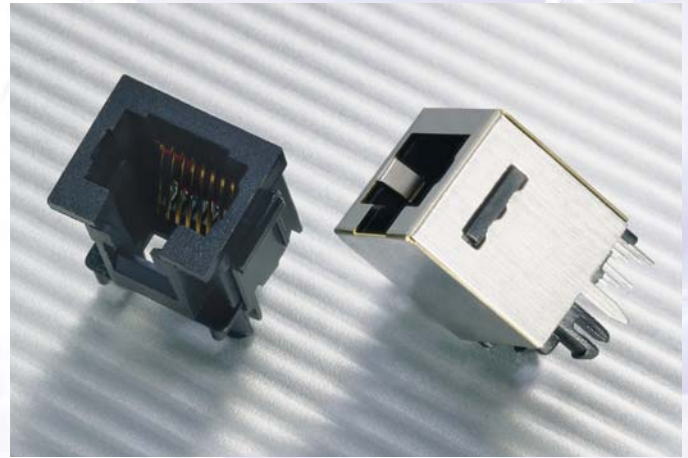
## Specifications

### MATERIAL

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| <b>Housing:</b>         | High Strength Thermoplastic<br>Polyester Flammability Rating<br>UL94V-0 |
| <b>Contacts:</b>        | Phosphor Bronze                                                         |
| <b>Contact Plating:</b> | Gold Over Nickel On Mating Area,<br>Tin-Lead Alloy On Tails             |
| <b>Shield:</b>          | Copper Alloy, Tin-Lead Alloy Plated                                     |

### ELECTRICAL

|                    |         |
|--------------------|---------|
| <b>UL File # :</b> | E136228 |
|--------------------|---------|



## Ordering Information

RJA06 - 188 - X X X 0

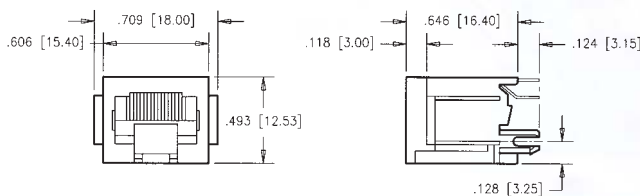
**X** **SHIELDING OPTION**  
0 - no shield  
1 - full shield

**OPTIONS**  
1 - without flanged  
2 - flanged

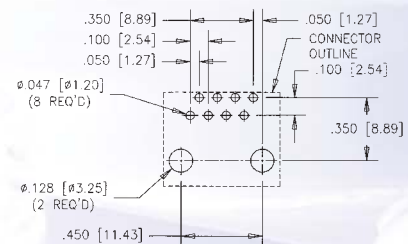
**GOLD PLATING**  
1 - 6  $\mu$  inches gold (0.15 microns)  
2 - 15  $\mu$  inches gold (0.38 microns)  
3 - 30  $\mu$  inches gold (0.76 microns)  
4 - 50  $\mu$  inches gold (1.27 microns)

## Single Port

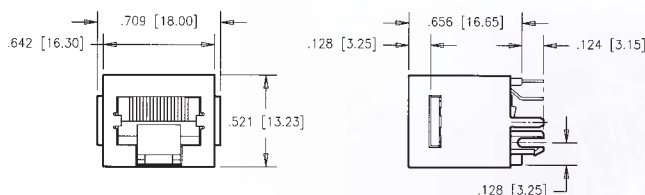
### NON-SHIELDED



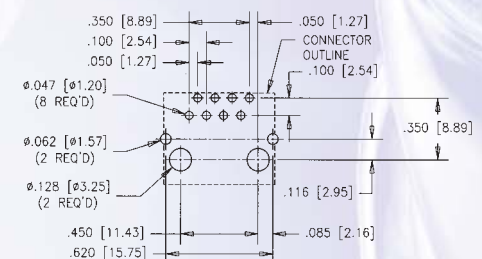
### PCB LAYOUT



### SHIELDED

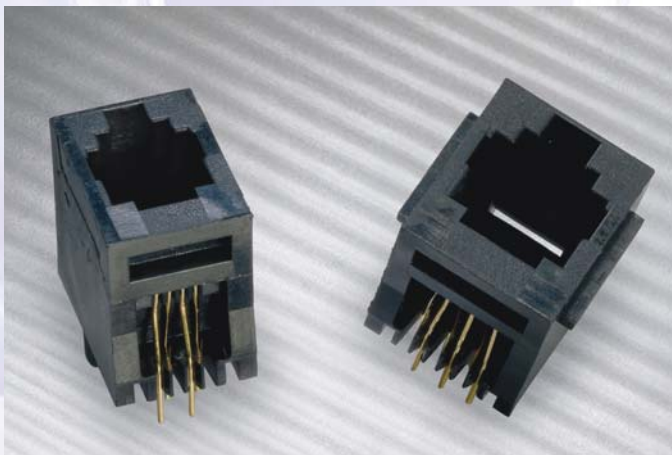


### PCB LAYOUT



# RJA08 Series

TOP ENTRY



## Specifications

### MATERIAL

#### Housing:

High Strength Thermoplastic  
Polyester Flammability Rating  
UL94V-0

#### Contacts:

Phosphor Bronze

#### Contact Plating:

Gold Over Nickel On Mating Area,  
Tin-Lead Alloy On Tails

### ELECTRICAL

#### UL File #:

E136228

## Ordering Information

RJA08 - 1 X X - 0 X X 0

X

#### NUMBER OF POSITIONS

A - 10 position  
8 - 8 position  
6 - 6 position  
4 - 4 position

X

#### NUMBER OF CONTACTS

A - 10 contacts (10 position)  
8 - 8 contacts (8 position)  
6 - 6 contacts (6 position)  
4 - 4 contacts (4 or 6 position)

#### OPTIONS

1 - without flange  
2 - flanged

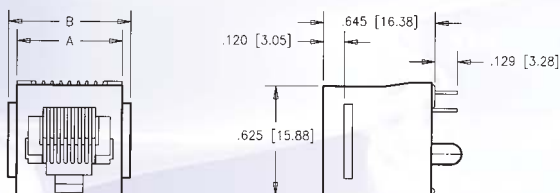
X

#### GOLD PLATING

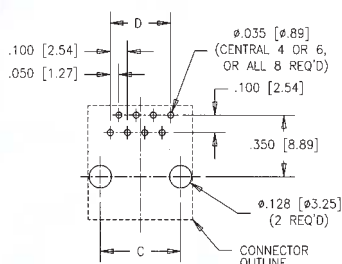
1 - 6  $\mu$  inches gold (0.15 microns)  
2 - 15  $\mu$  inches gold (0.38 microns)  
3 - 30  $\mu$  inches gold (0.76 microns)  
4 - 50  $\mu$  inches gold (1.27 microns)

X

### NON-SHIELDED



### PCB LAYOUT



| Number of positions | A               | B               | C               | D              |
|---------------------|-----------------|-----------------|-----------------|----------------|
| 4                   | .450<br>[11.43] | .550<br>[13.97] | .300<br>[7.62]  | .150<br>[3.81] |
| 6                   | .530<br>[13.46] | .630<br>[16.00] | .400<br>[10.16] | .250<br>[6.35] |
| 8                   | .605<br>[15.36] | .702<br>[17.84] | .465<br>[11.80] | .350<br>[8.89] |

# RJA07 Series

SURFACE MOUNT - SINGLE PORT

## Specifications

### MATERIAL

**Housing:** High Temperature Resistant Nylon  
Flammability Rating UL94V-0

**Contacts:** Phosphor Bronze

**Contact Plating:** Gold Over Nickel On Mating Area, Tin-Lead Alloy On Tails

**Shield:** Copper Alloy, Tin-Lead Alloy Plated

### ELECTRICAL

**UL File #:** E136228



## Ordering Information

RJA07 - 1 X X - X X X 0

**X** **NUMBER OF POSITIONS**  
8 - 8 position  
6 - 6 position

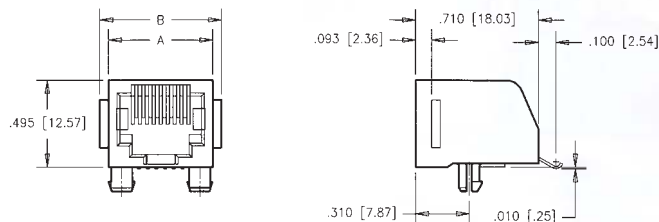
**X** **NUMBER OF CONTACTS**  
8 - 8 contacts (8 position)  
6 - 6 contacts (6 position)  
4 - 4 contacts (6 position)

**OPTIONS**  
1 - without flanged  
2 - flanged (must be flanged for 'shield' option)

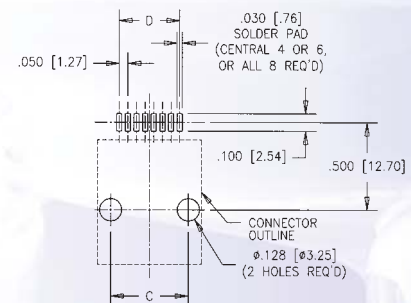
**GOLD PLATING**  
1 - 6  $\mu$  inches gold (0.15 microns)  
2 - 15  $\mu$  inches gold (0.38 microns)  
3 - 30  $\mu$  inches gold (0.76 microns)  
4 - 50  $\mu$  inches gold (1.27 microns)

**SHIELDING**  
0 - no shield  
2 - through hole shield  
3 - surface mount shield

### NON-SHIELDED



### PCB LAYOUT



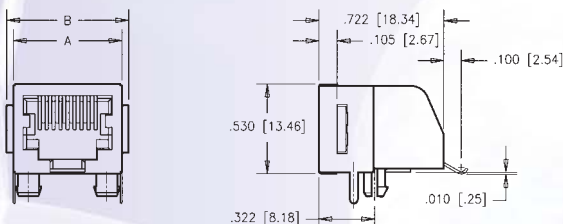
| Number of positions | Number of contacts | A               | B               | C               | D              |
|---------------------|--------------------|-----------------|-----------------|-----------------|----------------|
| 6                   | 4                  | .520<br>[13.21] | .620<br>[15.75] | .400<br>[10.16] | .150<br>[3.81] |
| 6                   | 6                  | .520<br>[13.21] | .620<br>[15.75] | .400<br>[10.16] | .250<br>[6.35] |
| 8                   | 8                  | .600<br>[15.24] | .700<br>[17.78] | .450<br>[11.43] | .350<br>[8.89] |

# RJA07 Series

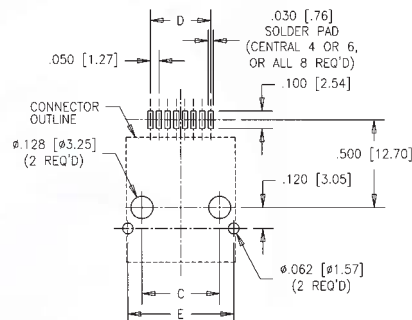
SURFACE MOUNT - SINGLE PORT

## Through Hole Shield

### PARTIALY SHIELDED



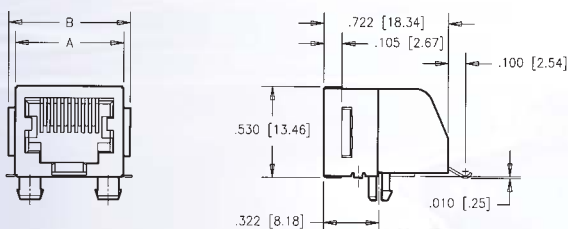
### PCB LAYOUT



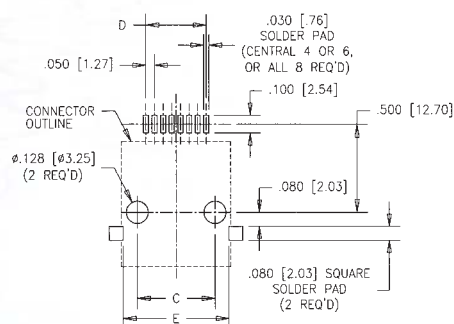
| Number of positions | Number of contacts | A            | B            | C            | D           | E            |
|---------------------|--------------------|--------------|--------------|--------------|-------------|--------------|
| 6                   | 4                  | .544 [13.83] | .620 [15.75] | .400 [10.16] | .150 [3.81] | .533 [13.54] |
| 6                   | 6                  | .544 [13.21] | .620 [15.75] | .400 [10.16] | .250 [6.35] | .533 [13.54] |
| 8                   | 8                  | .624 [15.24] | .700 [17.78] | .450 [11.43] | .350 [8.89] | .613 [15.57] |

## Surface Mount Shield

### PARTIALY SHIELDED



### PCB LAYOUT



| Number of positions | Number of contacts | A            | B            | C            | D           | E            |
|---------------------|--------------------|--------------|--------------|--------------|-------------|--------------|
| 6                   | 4                  | .544 [13.83] | .620 [15.75] | .400 [10.16] | .150 [3.81] | .533 [13.54] |
| 6                   | 6                  | .544 [13.21] | .620 [15.75] | .400 [10.16] | .250 [6.35] | .533 [13.54] |
| 8                   | 8                  | .624 [15.24] | .700 [17.78] | .450 [11.43] | .350 [8.89] | .613 [15.57] |

# RJA15 Series

ULTRA LOW PROFILE - SMT SINGLE PORT

## Specifications

### MATERIAL

**Housing:** High Temperature Resistant Nylon  
Flammability Rating UL94V-0  
**Contacts:** Phosphor Bronze  
**Contact Plating:** Gold Over Nickel On Mating Area, Tin-Lead Alloy On Tails  
**Shield:** Copper Alloy, Tin-Lead Alloy Plated

### ELECTRICAL

**UL File #:** E136228



## Ordering Information

RJA15 - 1 X X - X X 1 0

### X NUMBER OF POSITIONS

A - 10 position  
8 - 8 position  
6 - 6 position  
4 - 4 position

### X NUMBER OF CONTACTS

A - 10 contacts (10 position)  
8 - 8 contacts (8 position)  
6 - 6 contacts (6 position)  
4 - 4 contacts (4 or 6 position)

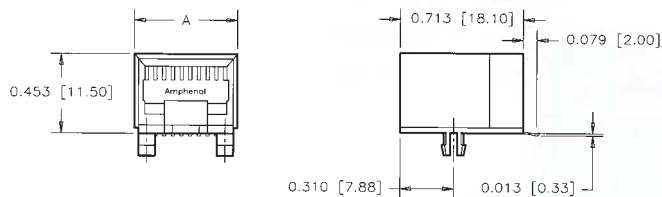
### GOLD PLATING

1 - 6  $\mu$  inches gold (0.15 microns)  
2 - 15  $\mu$  inches gold (0.38 microns)  
3 - 30  $\mu$  inches gold (0.76 microns)  
4 - 50  $\mu$  inches gold (1.27 microns)

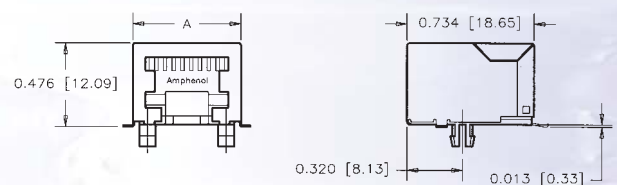
### SHIELDING OPTION

0 - non-shielded  
1 - shielded

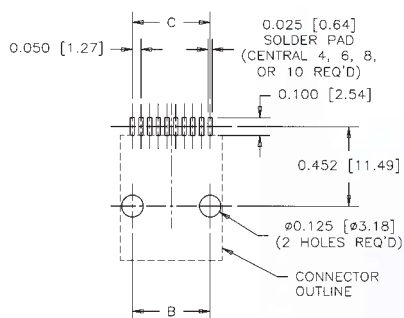
## NON-SHIELDED



## SHIELDED



## PCB LAYOUT



| Number of positions | Unshielded      | Shielded        |                 |                 |
|---------------------|-----------------|-----------------|-----------------|-----------------|
|                     | A               | A               | B               | C               |
| 4                   | .441<br>[11.21] | .469<br>[11.92] | .300<br>[7.62]  | .150<br>[3.81]  |
| 6                   | .510<br>[12.96] | .538<br>[13.67] | .400<br>[10.16] | .250<br>[6.35]  |
| 8                   | .592<br>[15.03] | .620<br>[15.74] | .450<br>[11.43] | .350<br>[8.89]  |
| 10                  | .592<br>[15.03] | .620<br>[15.74] | .450<br>[11.43] | .450<br>[11.43] |





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