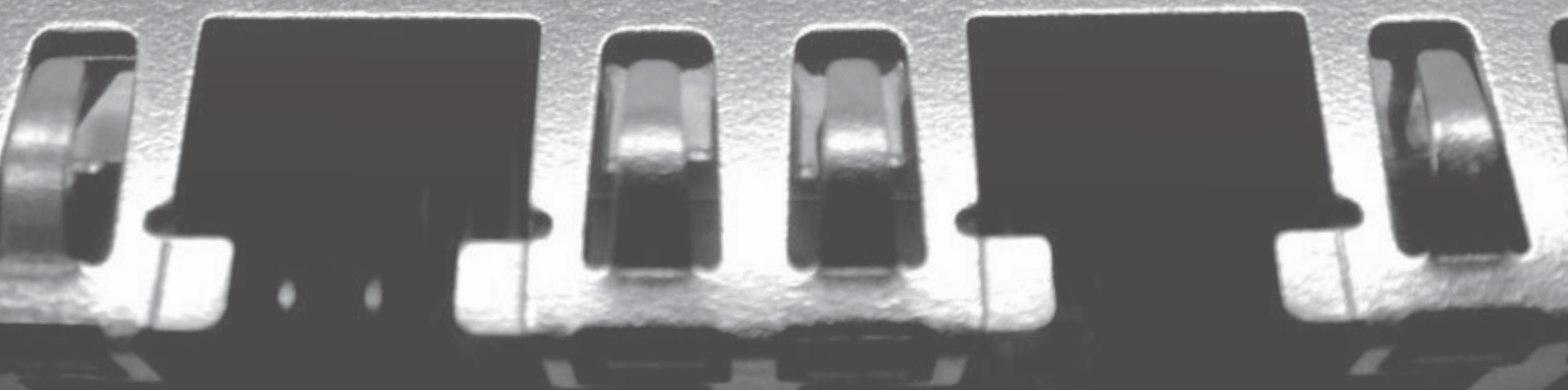


# ModularJacks



Amphenol



**Amphenol®**  
*Now you're connected!*

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 manufacturing 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 user of electronic components.

This modular jack catalogue represents some of our more popular products within this product category. Other product categories include, but not limited to: D-sub, Micro-Ribbon, USB, Headers and Sockets, CoolPower connectors, VHDCI, Capacitively Decoupled BNC, filtered connectors (D-sub and micro-ribbon), and rugged connectors (RJ, USB, D-sub, and bulkhead adaptors).

Can't find what you are looking for? For other modular jack products, modifications and customizations please contact us at [sales@amphenolcanada.com](mailto:sales@amphenolcanada.com).

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### **All of our modular jacks are RoHS compliant**

All drawings in this document are in inches [mm].

\* For more information on our dust covers please visit [www.amphenolcanada.com](http://www.amphenolcanada.com) or email [sales@amphenolcanada.com](mailto:sales@amphenolcanada.com)



































# LED OPTIONS

LED OPTIONS FOR RJHS, RJSE, RJE72, RJE73, RJSAE, RJSBE, AND RJSNE

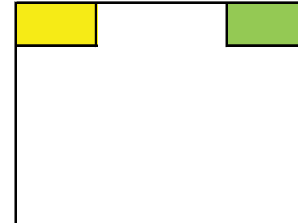
## LED Designation

RJHS\_ - \_ \_ \_ X\*

\* 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/YE	 BiC GR/YE
B	 BiC RD/GR	 BiC RD/GR
C	 BiC RD/GR	 BiC GR/YE
D	 Green	 BiC GR/YE
E	 Yellow	 BiC GR/YE
F	 BiC GR/YE	 Yellow
G	 BiC GR/OR	 BiC GR/OR
H	 BiC GR/YE	 Green
J	 BiC RD/GR	 Yellow
K	 Yellow	 BiC GR/OR
L	 BiC GR/YE	 Red
M	 Red	 Yellow
N	 BiC GR/RD	 BiC GR/YE
P	 Green	 BiC RD/GR
R	 BiC GR/OR	 Green
T	 Red	 Red
V	 BiC RD/GR	 Green

LED 2



LED 1

Other LED options available. If you do not see what you're looking for, please email [sales@amphenolcanada.com](mailto:sales@amphenolcanada.com) to request the complete LED ordering options.

## EMI Quiet Modular Jack with LED's

A Series of EMI Quiet Modular Jack Connectors with built-in LEDs. 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 colours, and ports.



## Specifications

### Material

Shield:	Stainless steel or copper alloy; Nickel plated
Contacts:	Phosphor bronze; Gold over nickel
Housing:	High temperature thermoplastic complies with UL 94V-0, black colour
LED:	Steel with tin plating on LED tail. Epoxy lens

### 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. 60Hz. 1 minute

### 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

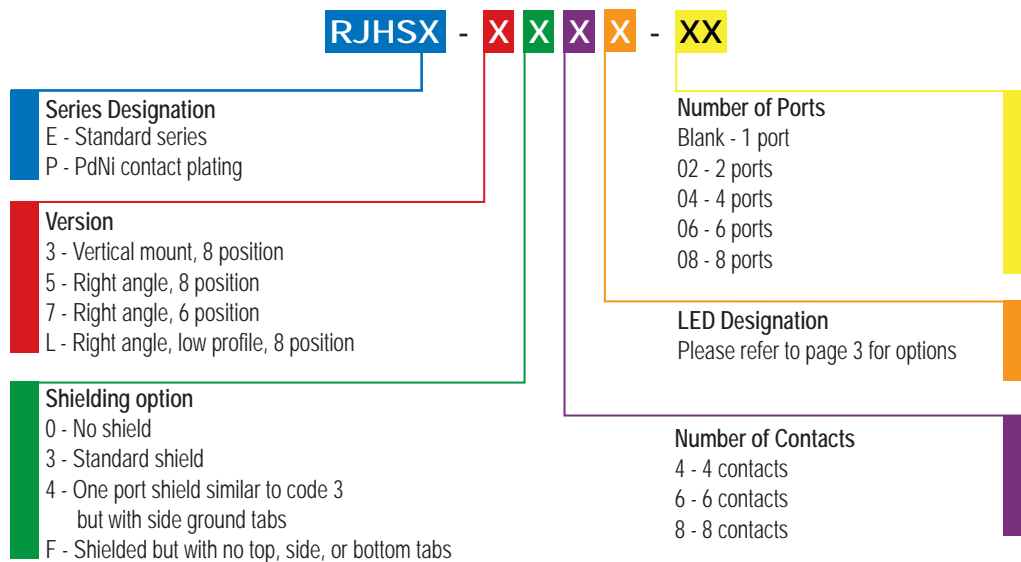
Forward Voltage:	2.0 Volts Typical
Reverse Voltage:	6.0 Volts minimum
Luminous Intensity:	1.0 mCd minimum (at If = 2mA)

### Other Parameters:

Operating Temperature:	-55 °C to 85 °C
Lead Soldering Temperature:	260 °C (5 sec)

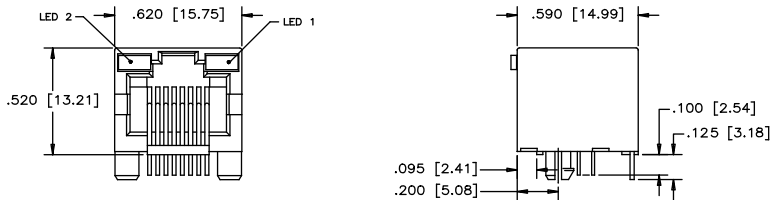
UL File # :	E135615
CSA File # :	LR68598

## Ordering Information

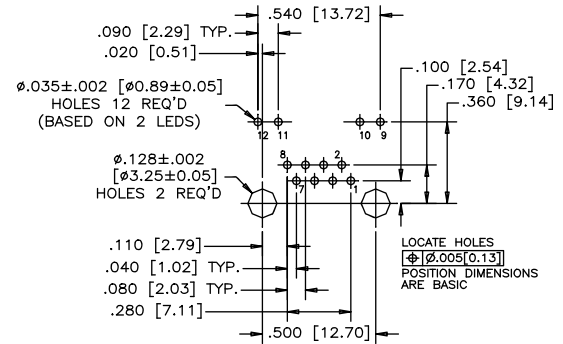


## Single Port

### Non-Shielded

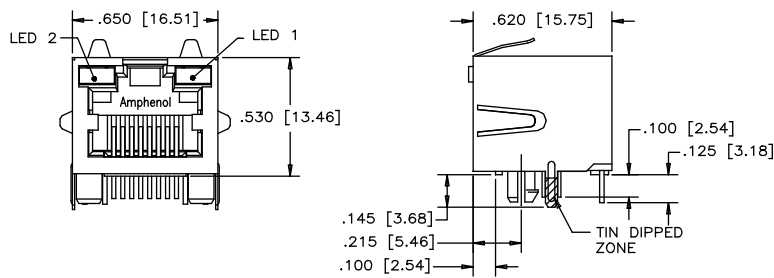


### PCB Layout

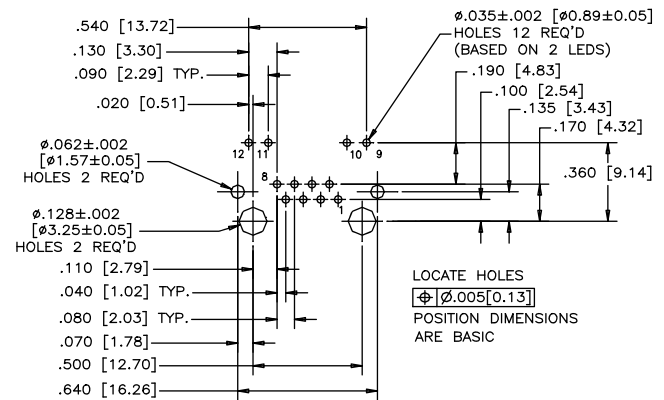


## RJHSE-5481

### Shielded - With Top & Side Ground Tabs

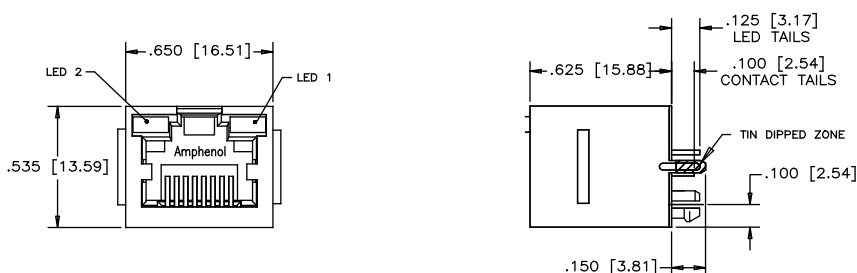


### PCB Layout

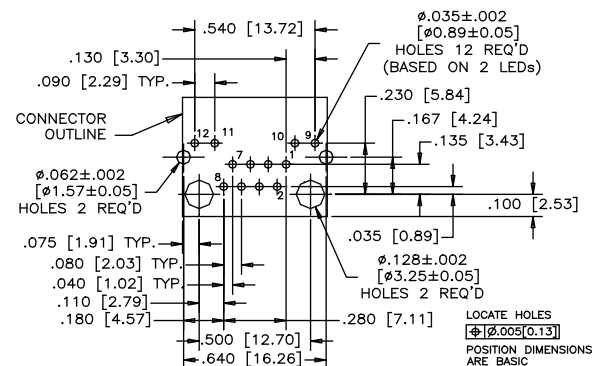


## RJHSE-3081

### Vertical Mount



### PCB Layout

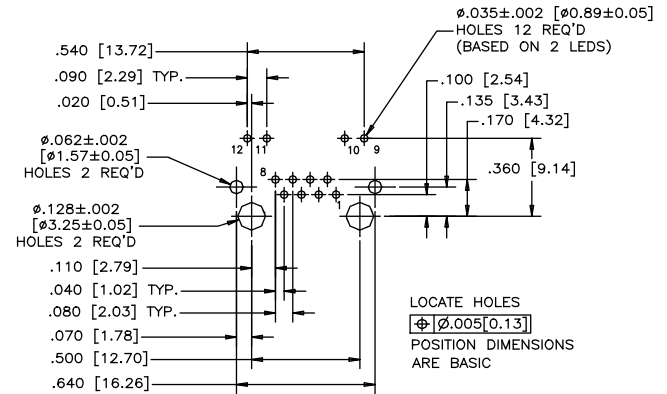
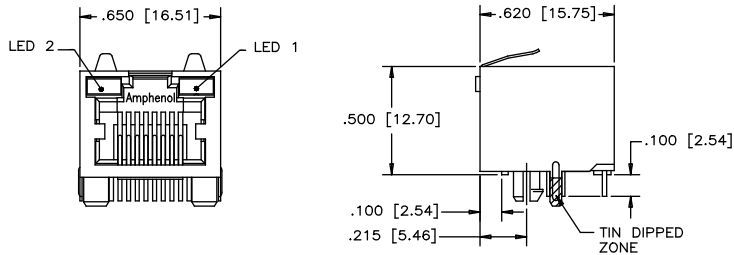


## Single Port

RJHSE-L381

### Low Profile

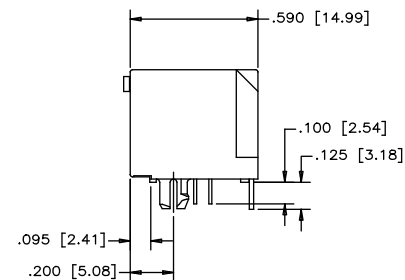
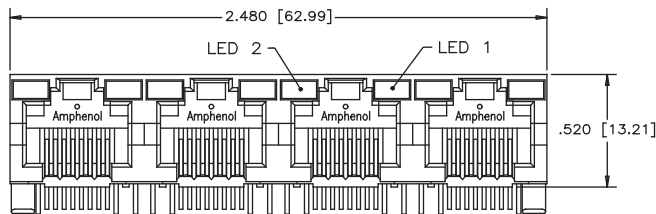
### PCB Layout



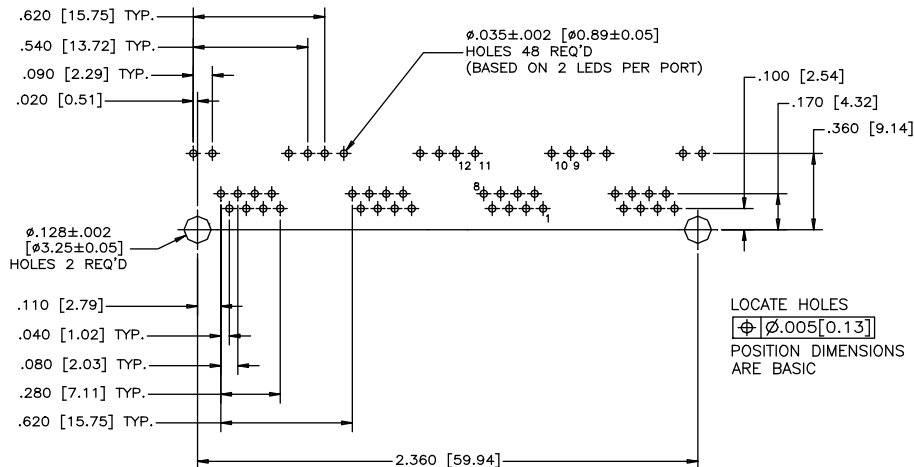
## Multi Port

RJHSE-5081-04

### Non-Shielded



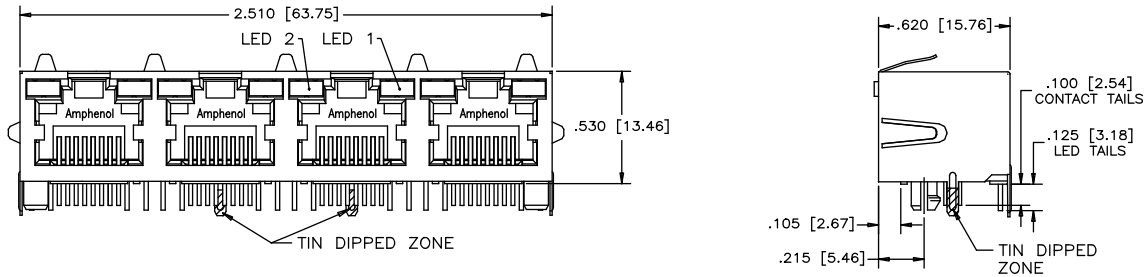
### PCB Layout



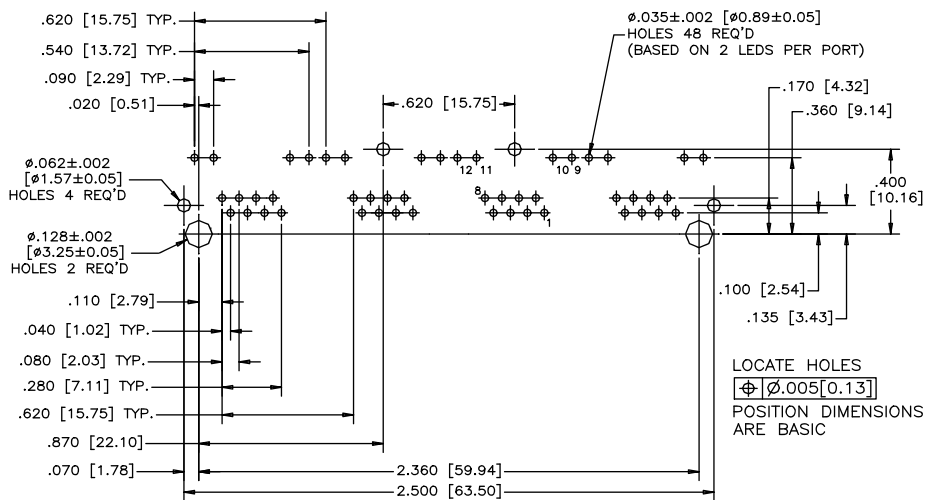
## Multi Port

RJHSE-5381-04

## Shielded



## PCB Layout



## Notes

# RJSSE SERIES

SURFACE MOUNT WITH LIGHT PIPES

## Surface Mount with Light Pipes

Amphenol Canada's RJSSE series represents an expansion of our current RJHSE series connector. The RJSSE offers all the benefit of the RJHSE series in SMT with light pipes.

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



## Specifications

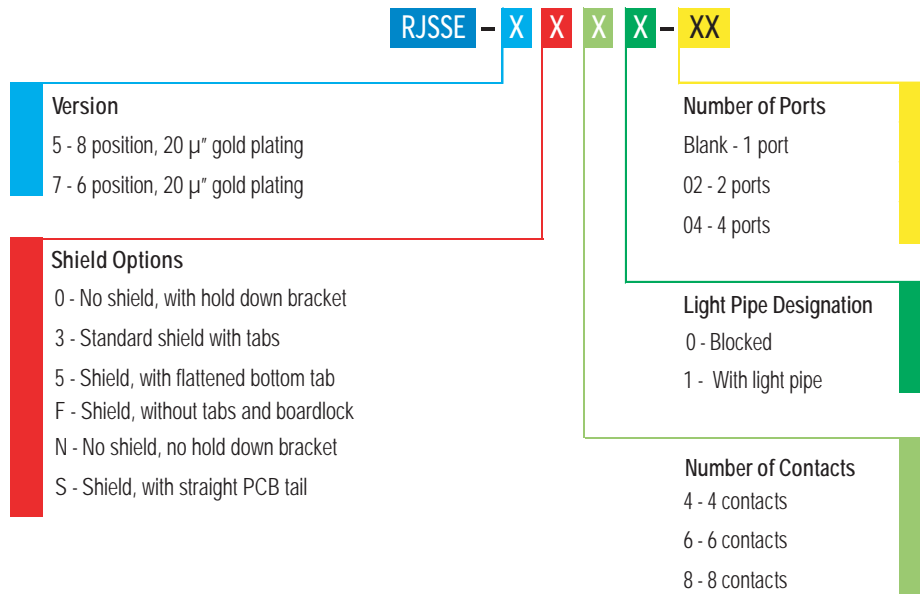
### Material

Insulator:	High temperature thermoplastic complies with UL 94V-0, black colour
Shield:	Copper alloy; Nickel plated or matte-tin
Contacts:	Phosphor bronze hard temper selective plated gold. Over 50 $\mu$ " minimal nickel. 100 $\mu$ " minimal matte-tin soldering tail.
Light Pipe:	Clear polycarbonate complies with UL 94V-0

### Electrical

Contact Resistance:	20 milliohms maximum
Insulation Resistance:	500 megohms minimum at 500VDC for 2 minutes maximum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
Dielectric Withstanding Voltage:	1500 VAC, RMS. 60Hz. 1 minute

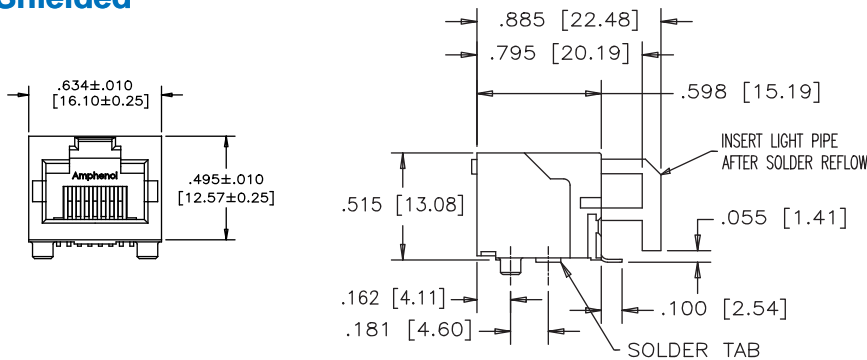
## Ordering Information



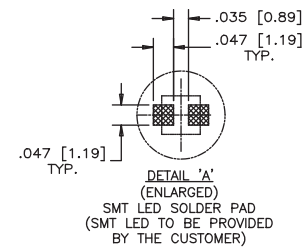
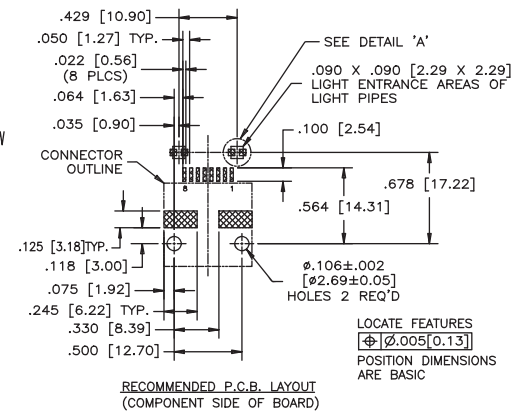
## Single Port

RJSSE-5081

### Non-Shielded

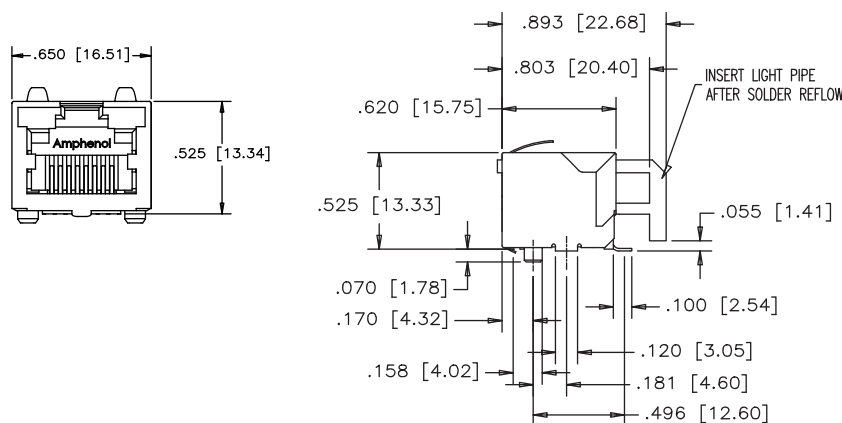


### PCB Layout

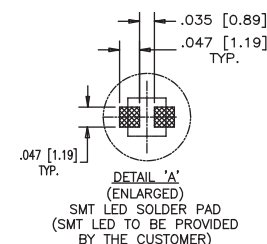
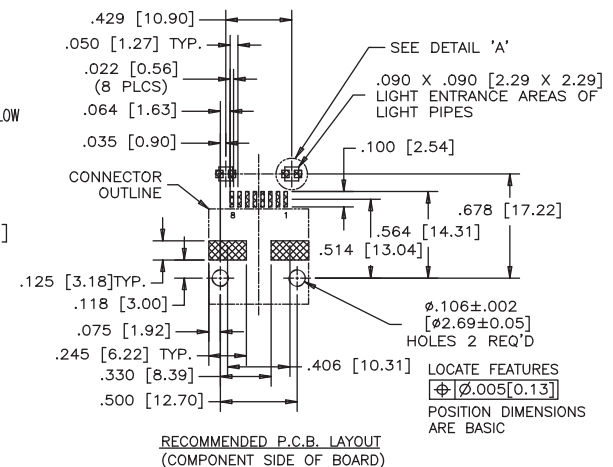


RJSSE-5381

### Shielded



### PCB Layout



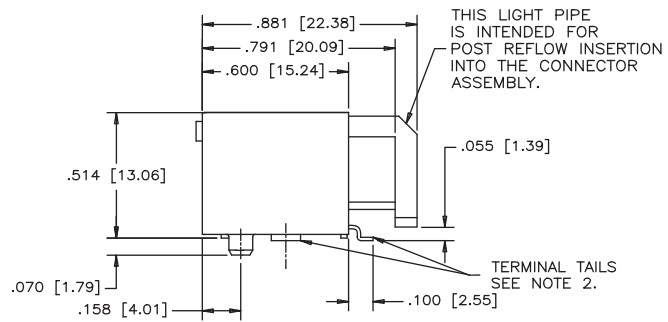
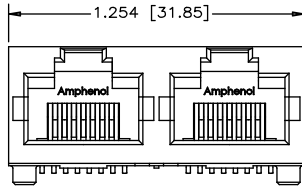
# RJSSE SERIES

SURFACE MOUNT WITH LIGHT PIPES

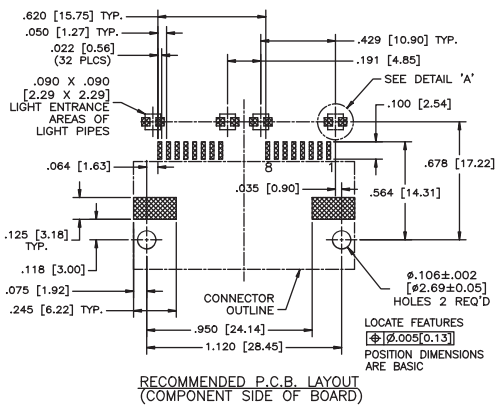
## Multi Port

### Non-Shielded

RJSSE-5081-02

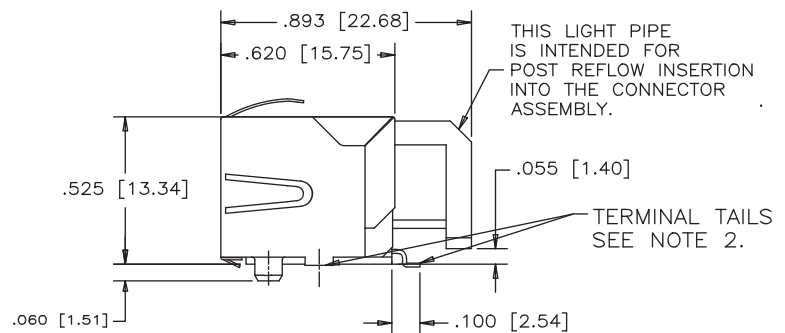
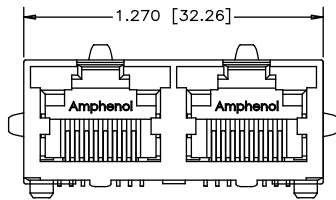


### PCB Layout

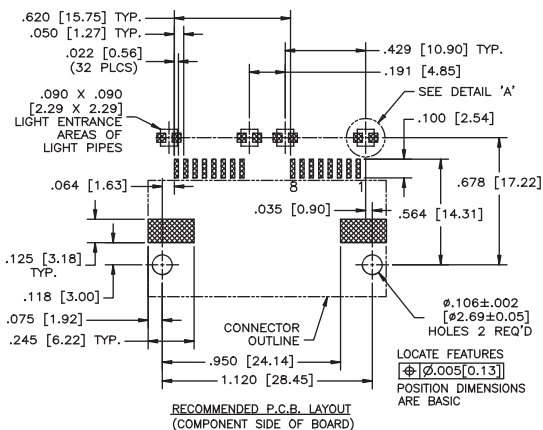


### Shielded

RJSSE-5381-02



### PCB Layout



## 1, 2, and 4 Port with LED's

The RJSBE series of modular jacks supports Ethernet Protocols. Shielding available with and without a ferrite filter for increased EMI performance and LED's for Link Activity and Network Speed verification.



## Specification

### Materials

Housing:	High Temp thermoplastic complies with UL 94V-0. Black colour
Contacts:	Phosphor bronze hard temper with gold thickness options (6µ", 15µ", 30µ", 50µ") over 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin plating on soldering tail
Shield:	Copper alloy; Nickel plated with tin dipped tail
LED:	Steel with tin plating on LED tail. Epoxy lens

### Mechanical

Mating Connector	
Insertion Force:	5.0 lbs. Maximum
Mating Connector Pull	
Retention Force:	20 lbs. Minimum
Durability:	750 Mating and unmating cycles
Recommended Soldering Temperature:	260°C for 5 seconds maximum
Operating Temperature:	-55°C to +85°C

### Electrical

Contact Resistance:	20 Milliohms maximum
Insulation Resistance:	500 Megohms minimum at 500VDC for 2 minutes maximum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
Dielectric Withstanding Voltage:	1000 VDC, 60Hz. 1 minute
LED Forward DC Current:	20 mA typical
LED Forward Voltage:	1.9 Volts max. @ 2mA (for single colours) 2.6 Volts max. @ 20mA (for Bi-colours)
LED Reverse Voltage:	5 Volts minimum
LED Light Intensity:	0.4 to 1.5 mcd @ 2mA (for single colours) 0.4 mcd min. @ 2mA (for Bi-colours)
LED Wave Length:	Yellow: 587± 7 nm measured @ 20mA Green: 565± 6 nm measured @ 20mA Red: 625± 5 nm measured @ 20mA
UL File #	E135615
CSA File #	LR68598

## Ordering Information

RJSBE - X X X X - C X	
Version	Number of Ports
5 - 8 position, 50 µ" gold plating	2 - 2 ports
7 - 6 position, 50 µ" gold plating	4 - 4 ports
D - 8 position, 6 µ" gold plating	8 - 8 ports
G - 8 position, 15 µ" gold plating	LED Designation
J - 8 position, 30 µ" gold plating	Please refer to page 3 for options
Shield Options	Number of Contacts
0 - No shield	4 - 4 contacts
2 - Shield with side tabs, filtered	6 - 6 contacts
3 - Shield with side tabs, no filter	8 - 8 contacts
F - Shield, with no tabs, no filter	

# RJSBE SERIES

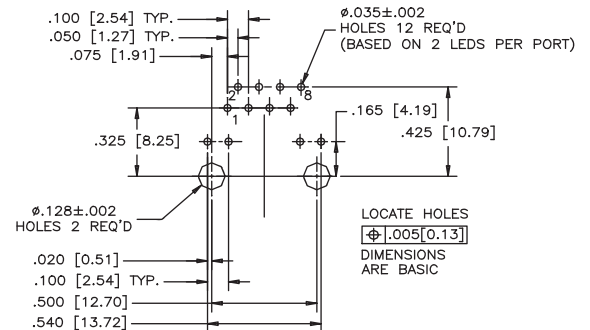
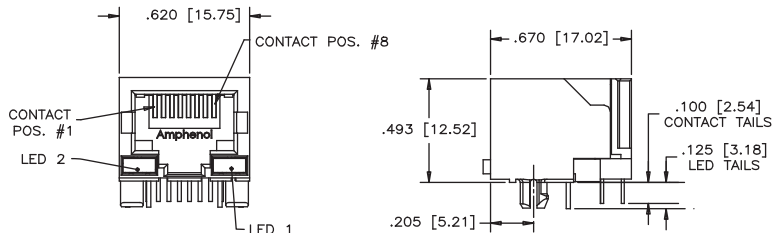
1, 2, AND 4 PORT WITH LED'S

## Single Port

RJSBE-5081-C1

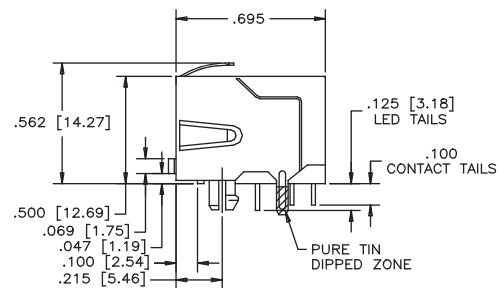
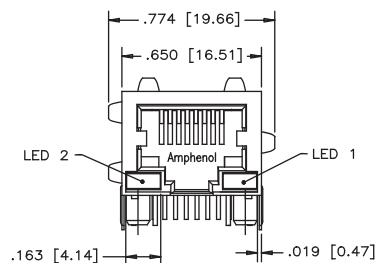
### Non-Shielded

### PCB Layout

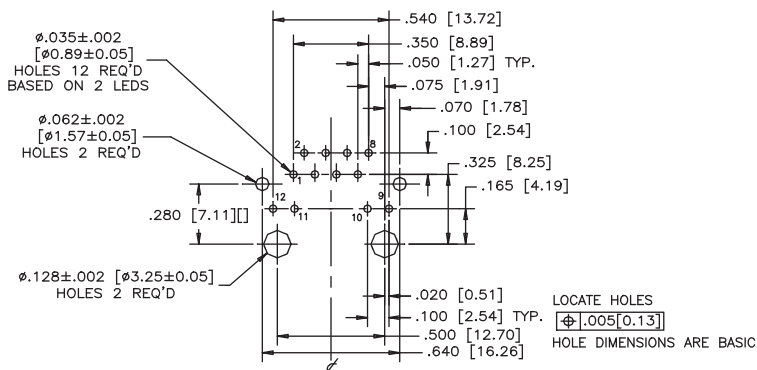


### Shielded

RJSBE-5381-C1



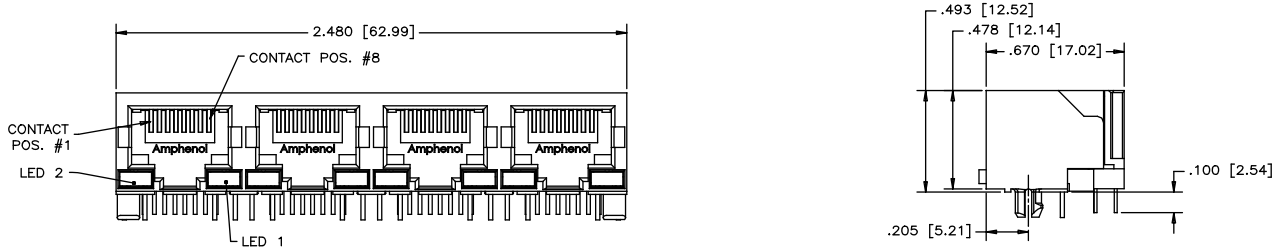
### PCB Layout



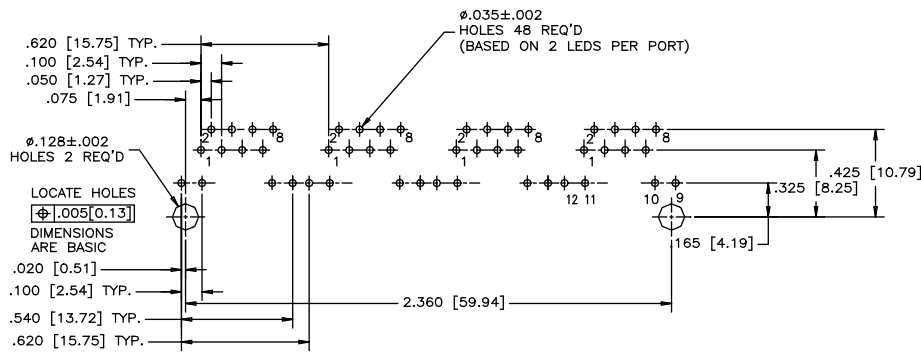
## Multi Port

RJSBE-5081-C4

### Non-Shielded

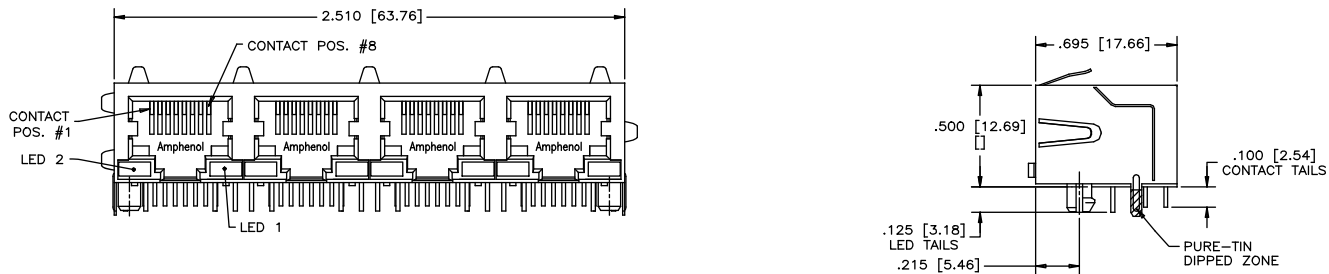


### PCB Layout

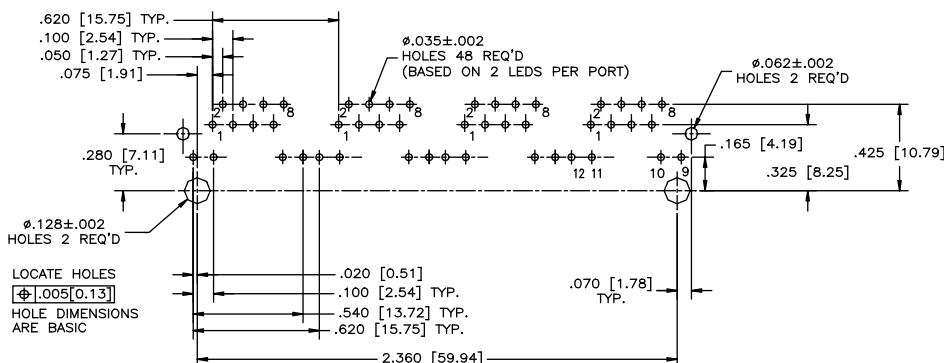


## Shielded

RJSBE-5381-C4



### PCB Layout



# FRJ/FRJAE SERIES

FILTERED AND SHIELDED

## Filtered and Shielded

The FRJ and FRJAE 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

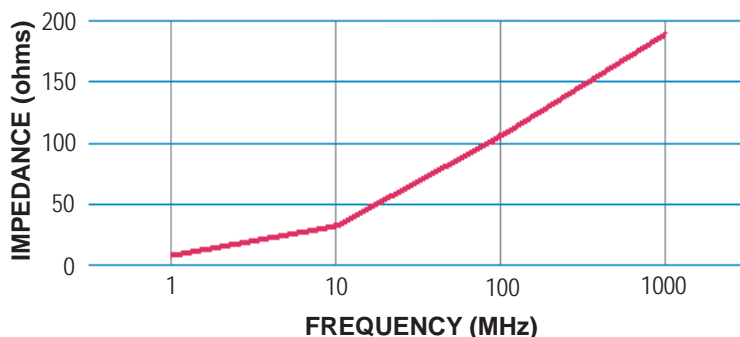
### Material

Insulator:	High temperature thermoplastic complies with UL 94V-0, black colour
Contacts:	Phosphor bronze hard temper with 50 $\mu$ " minimal gold over 50 $\mu$ " minimal nickel. 100 $\mu$ " minimal matte-tin or gold flash on soldering tail.
Shield:	Copper alloy; Nickel plated with tin dipped PCB tail
Ferrite:	Ferrite #61 & Ferrite #44

### Electrical

Contact Resistance:	30 milliohms maximum
Insulation Resistance:	500 megohms minimum at 500 VDC for 2 minutes maximum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
Dielectric Withstanding Voltage:	1000 VAC, 60Hz. 1 minute

## Impedance Characteristics



UL File # : E135615  
CSA File # : LR68598

## Ordering Information

FRJAE - X X X - XX

### Version

4 - 8 position  
6 - 6 position

### Options

0 - Non filtered, non shielded  
1 - Filtered with front tab shield  
3 - Shield with front tab  
4 - Filtered  
6 - Filtered with rear tab shield  
7 - Filtered with non-tab shield  
8 - Shield with rear tab

### Number of Ports

Blank - 1 port  
02 - 2 ports  
03 - 3 ports  
04 - 4 ports  
06 - 6 ports  
08 - 8 ports

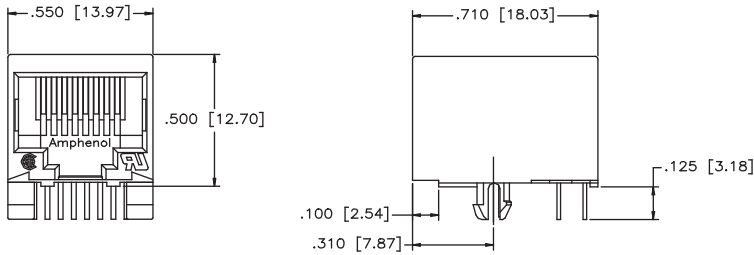
### Number of Contacts

2 - 2 contacts  
4 - 4 contacts  
6 - 6 contacts  
8 - 8 contacts

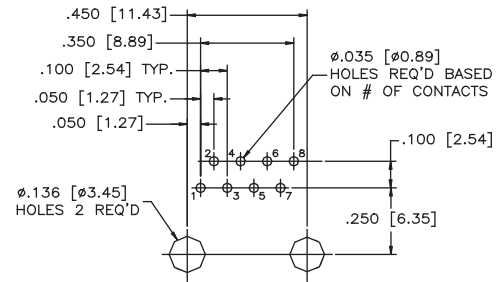
## Single Port

FRJAE-408

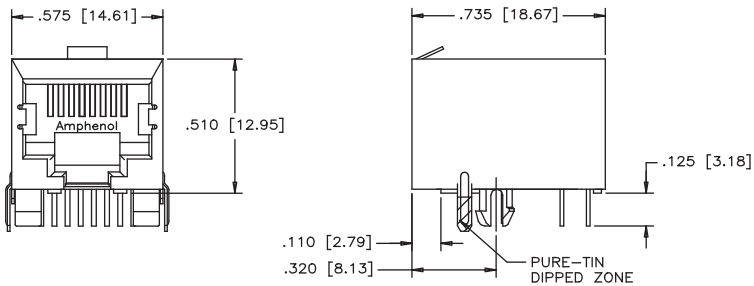
### Non-Shielded



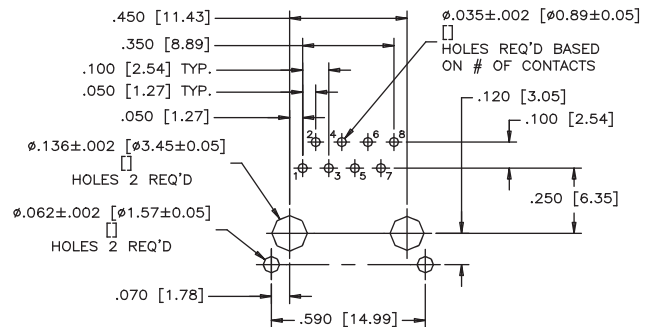
### PCB Layout



### Shielded



### PCB Layout

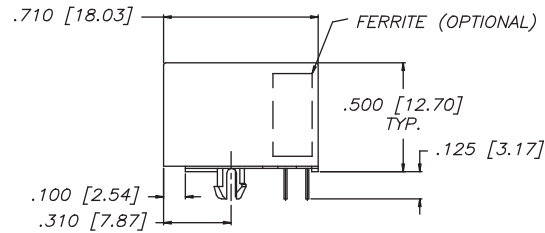
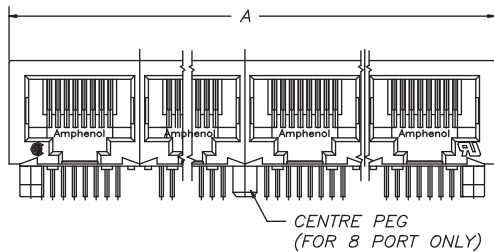


FRJAE-438

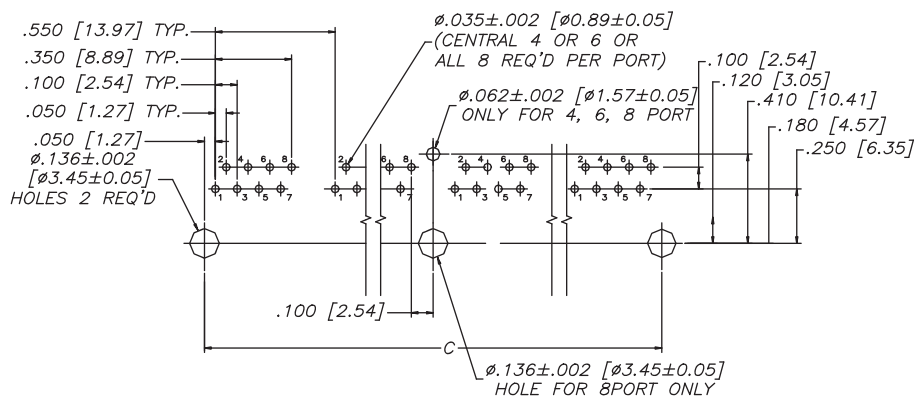
## Multi Port

FRJAE-878-0X

### Non-Shielded



### PCB Layout



Number of ports	A	C
2	1.200 [30.48]	1.000 [25.40]
4	2.300 [58.42]	2.100 [53.34]
6	3.400 [86.36]	3.200 [81.28]
8	4.500 [114.30]	4.300 [109.22]

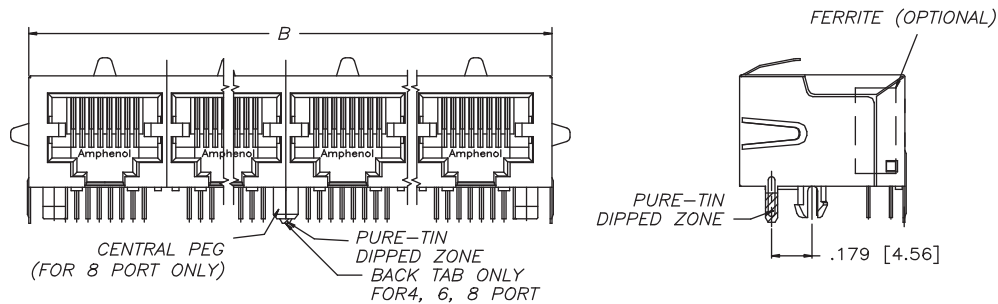
# FRJ/FRJAE SERIES

FILTERED AND SHIELDED

## Multi Port

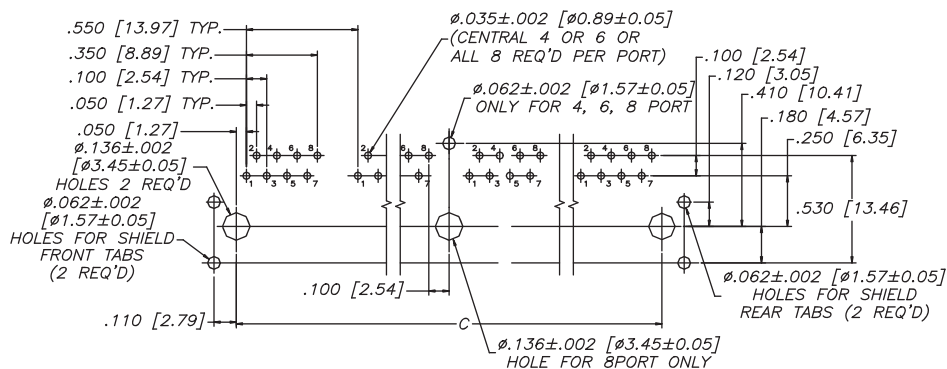
### Shielded

FRJAE-418-0X



Number of ports	B	C
2	1.230 [31.24]	1.000 [25.40]
4	2.330 [59.18]	2.100 [53.34]
6	3.430 [87.12]	3.200 [81.28]
8	4.530 [115.06]	4.300 [109.22]

### PCB Layout



### Notes

## RJ45 Surface Mount with LED's

The RJCSE is a right angle surface mount connector with built-in LED's, available with or without shield. Shielding available for increased EMI performance and built-in LED's for link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.



## Specifications

### Material

Housing:	High temperature thermoplastic. Complies with UL 94V-0. Black colour
Contacts:	Phosphor bronze hard temper with gold thickness options (15 $\mu$ ", 50 $\mu$ ") over 50 $\mu$ " minimum nickel on contact mating area. Gold flash over nickel on soldering tail
Shield:	Copper alloy with nickel plating
LED:	Steel with tin plating on LED tail. Epoxy lens

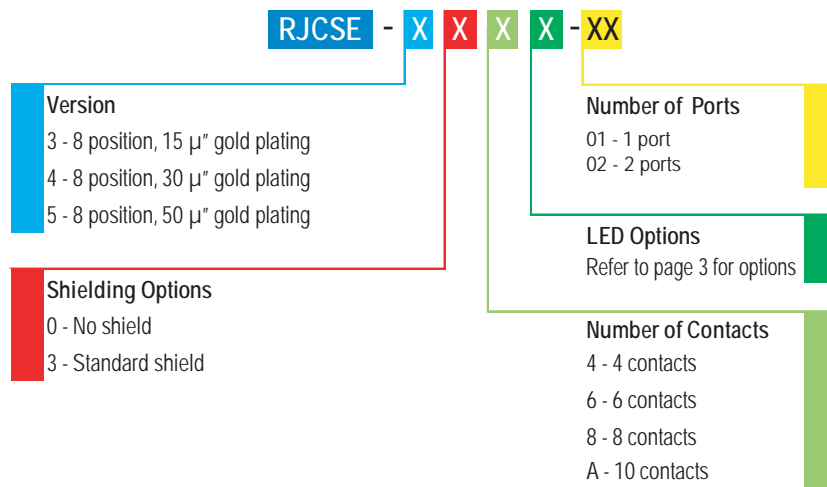
### Mechanical

Mating Connector	
Insertion Force:	5.0 lbs. Maximum
Mating Connector Pull	
Retention Force:	20 lbs. Minimum
Durability:	750 Mating and unmating cycles (for 50 $\mu$ " gold plating option)
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 seconds maximum

### Electrical

Contact Resistance:	20 Milliohms maximum
Insulation Resistance:	500 Megohms minimum at 500V DC for 2 minutes maximum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 minute
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts maximum @ 2mA (for single colours) 2.6 Volts maximum @ 20mA (for Bi-colours)
LED Reverse Voltage:	5 Volts minimum
LED Light Intensity:	0.4 to 1.5mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours)
LED Wave Length:	Yellow: 587 $\pm$ 7 nm measured @ 20mA Green: 565 $\pm$ 6 nm measured @ 20mA Red: 625 $\pm$ 5 nm measured @ 20mA

## Ordering Information



# RJCSE SERIES

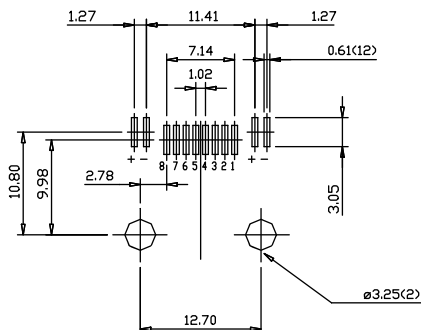
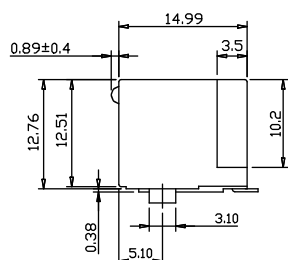
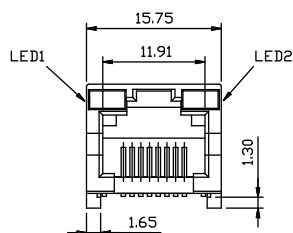
RJ45 SURFACE MOUNT WITH LED's

## Single Port

### Non-Shielded

RJCSE-5081-01

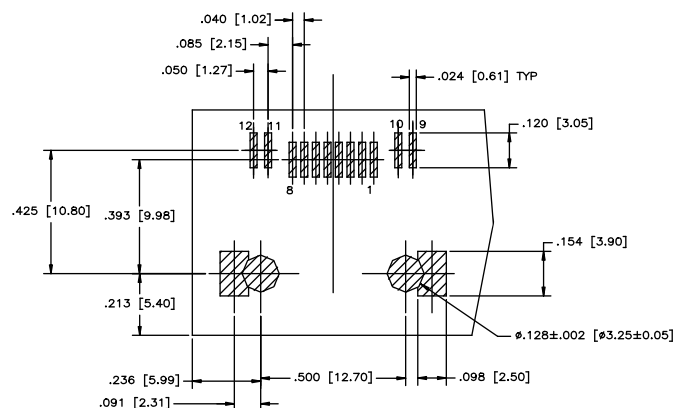
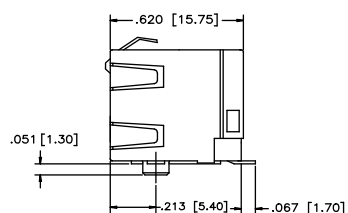
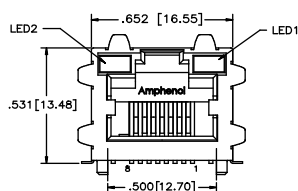
### PCB Layout



### Shielded

RJCSE-5381-01

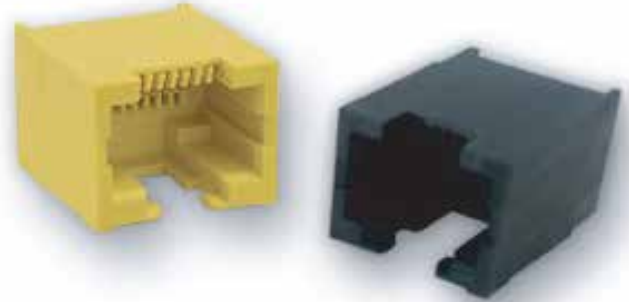
### PCB Layout



## Notes

## Surface Mount Ultra Low Profile

The RJLSE series are surface mounted type modular jacks with superior EMI performance that supports Ethernet Protocols. This low profile connector is built to meet your high volume RJ requirements. This series is a true pick and place compatible SMT connectors and is available with different shielding, number of contacts, gold plating thickness, and colour options. Built with high temperature engineering thermoplastic, they are suitable for IR Reflow solder process.



## Specifications

### Materials

Insulator:	High temperature engineering thermoplastic, flammability rating UL 94V-0. Available in black, yellow, and red
Contacts:	Phosphor bronze
Plating:	Gold plated on mating surfaces over 50 $\mu$ " (1.27 microns) minimum nickel underplate. 100 $\mu$ " (2.54 microns) minimum matte-tin on contact tails
Shield:	Copper alloy; Nickel or matte-tin plated
Coplanarity:	The maximum gap between all terminal tails is .004" (0.10mm)

### Mechanical

Mating Connector Insertion Force:	5.0 lbs. Maximum
-----------------------------------	------------------

### Mating Connector Pull

Retention Force:	20 lbs. Minimum
Durability:	750 Mating and unmating cycles
Suitable for IR Reflow	
Operating Temperature:	-55 °C to + 85 °C

### Electrical

Contact Resistance:	20 Milliohms maximum
Insulation Resistance:	500 Megohms minimum at 500VDC for 2 minutes maximum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
Dielectric Withstanding Voltage:	1000 VDC, 60Hz. 1 minute

UL File #	E135615
CSA File #	LR68598

## Ordering Information



# RJLSE SERIES

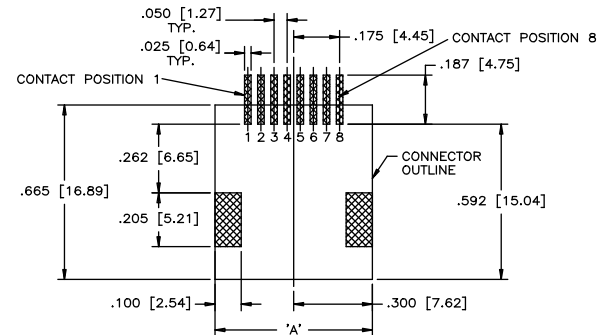
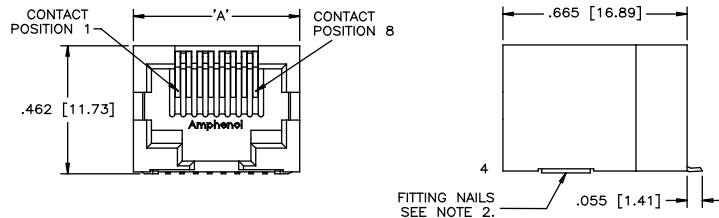
SURFACE MOUNT ULTRA LOW PROFILE

## Single Port

### Non-Shielded

RJLSE-43081-01

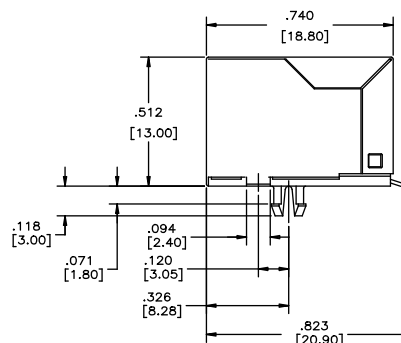
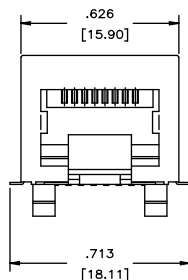
### PCB Layout



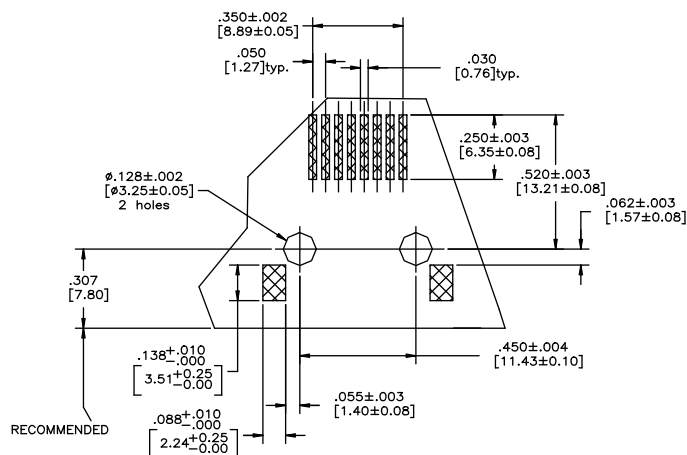
NO. OF POSITIONS	DIMENSIONS
	'A'
6	.520 [13.21]
8	.600 [15.24]

### Shielded

RJLSE-43181-01



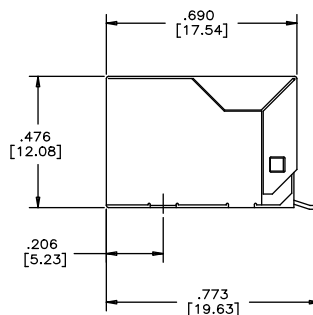
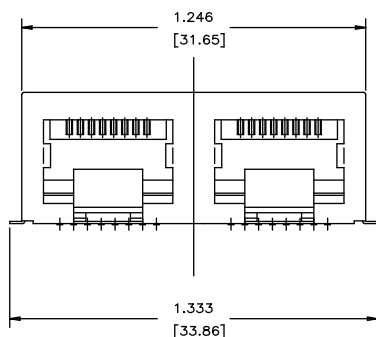
### PCB Layout



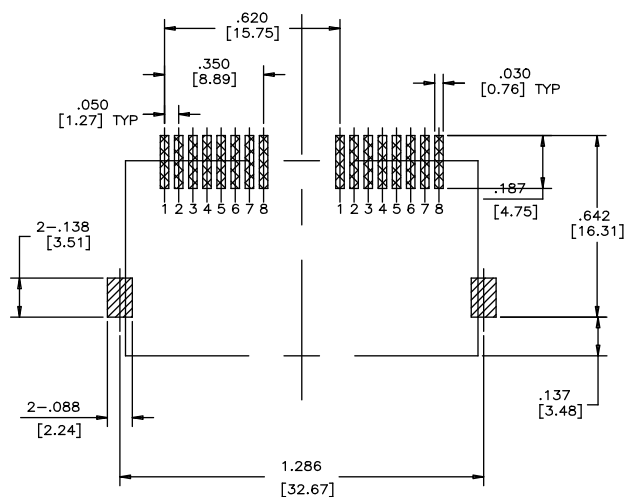
## Multi Port

RJLSE-43181-02

### Shielded



### PCB Layout



### Notes

# RJESE SERIES

RJ45 AND RJ11 STANDARD PROFILE

## RJ45 and RJ11 Standard Profile

New family of EMI Quiet Modular Jack connectors with integrated LED's features the same data transfer capabilities as our existing series of LED-integrated Modular Jacks. This product is an economical solution ideal for LAN applications and is intended for use with low temperature soldering processes. Shielded and non-shielded versions are available with a variety of LED options to choose from. RJESE is offered in single and multi-port configurations.



## Specification

### Material

Shield:	Stainless steel or copper alloy; Nickel plated
Contacts:	Phosphor bronze; gold over nickel
Housing:	Engineering thermoplastic complies with UL 94V-0, black colour

### 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. 60Hz. 1 minute

### 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)

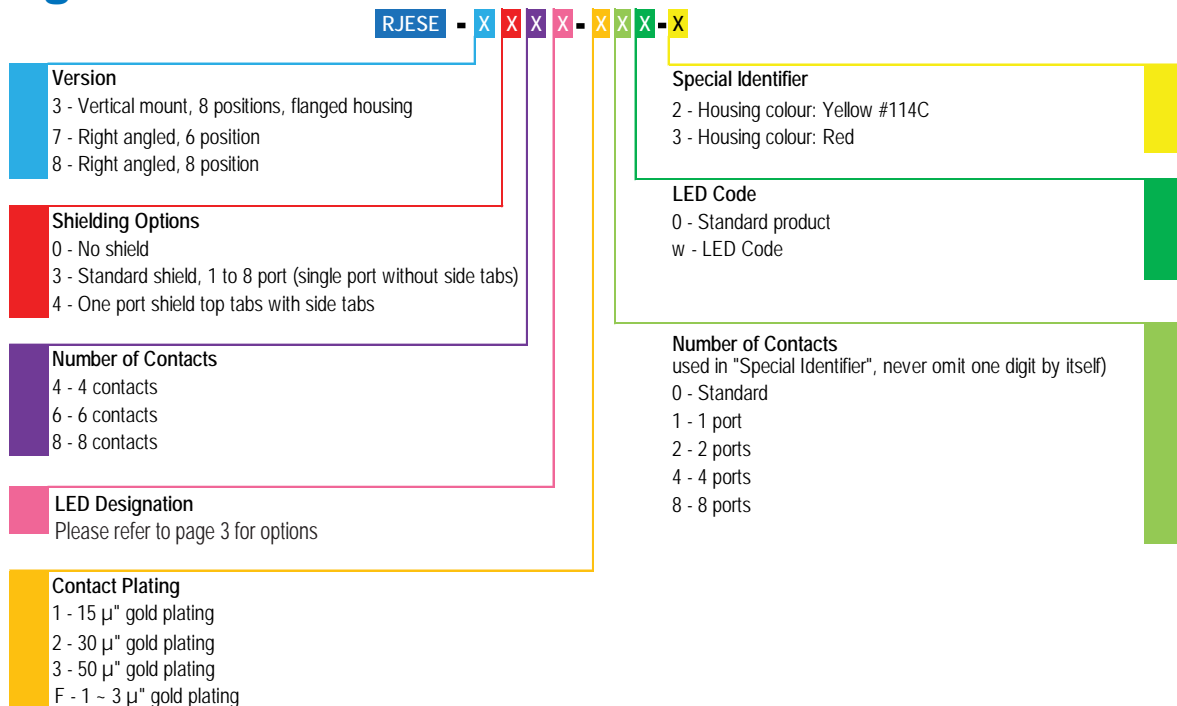
### Low Current LEDs: For 3.3 V Systems

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

### Other Parameters:

Operating Temperature:	- 20 °C to 70 °C
Lead Soldering Temperature:	260 °C (5 sec)

## Ordering Information

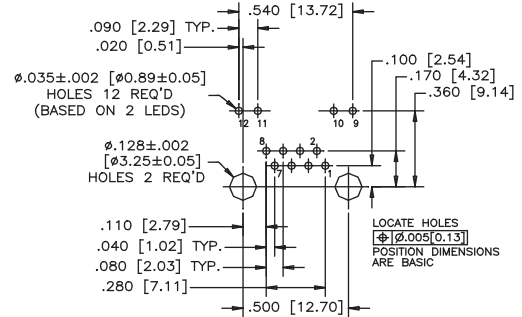
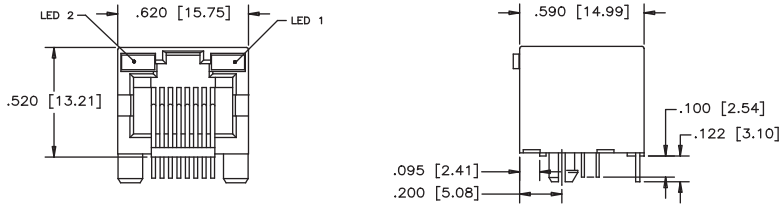


## Single Port

RJESE-8081-01

### Non-Shielded

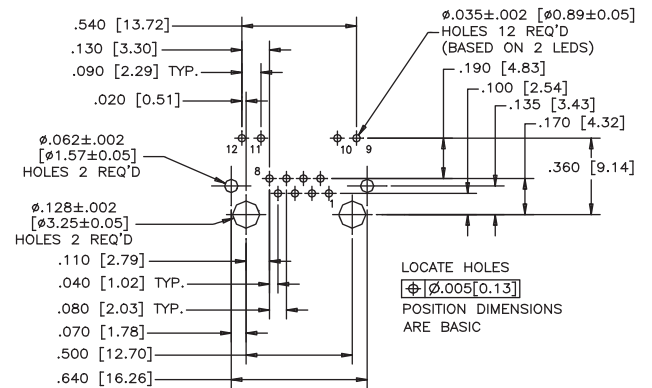
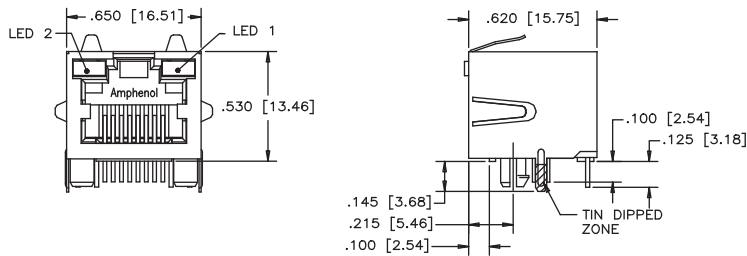
### PCB Layout



### Shielded

### PCB Layout

RJESE-8481-01



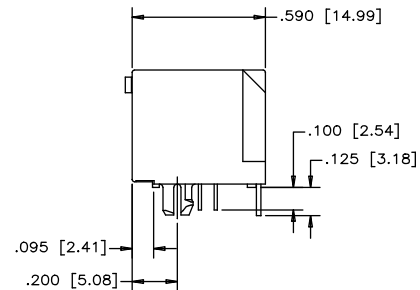
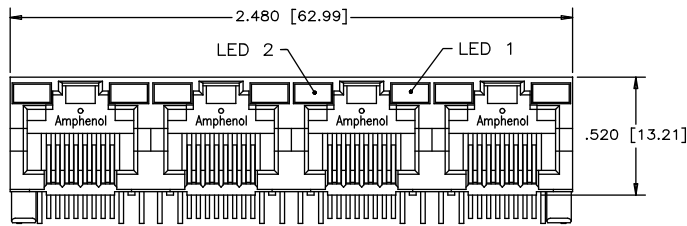
### Notes

# RJ45 SERIES

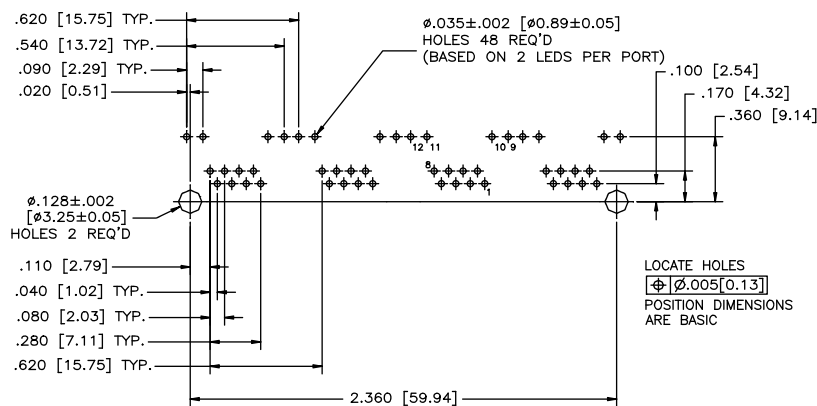
RJ45 AND RJ11 STANDARD PROFILE

## Multi Port Non-Shielded

RJ45-8081-04

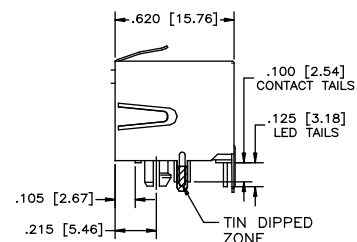
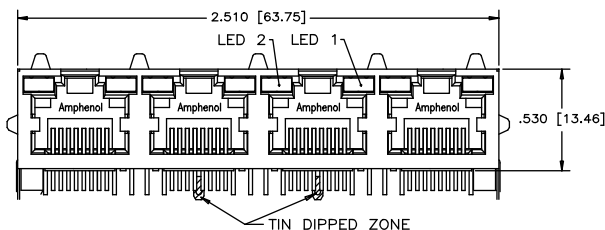


### PCB Layout

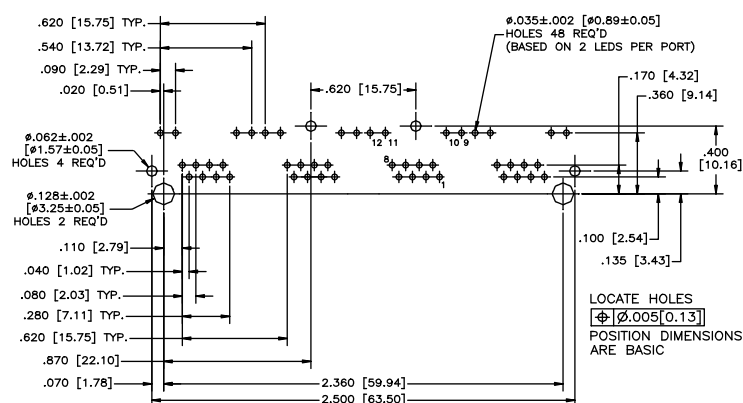


## Shielded

RJ45-8381-04



### PCB Layout



## RJ11 (Six Position)

The RJE01 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

#### Insulator:

High temperature thermoplastic complies with UL 94V-0; Black colour

#### Contacts:

Phosphor bronze hard temper with 50  $\mu$ " minimum gold over 50  $\mu$ " minimal nickel on contact mating area. With 100  $\mu$ " minimum matte-tin plating on soldering tail

#### Shield:

Copper alloy, nickel plated with tin dipped tail

### Electrical

#### Contact Resistance:

30 Milliohms maximum

#### Insulation Resistance:

500 Megohms minimum at 500 VDC for 2 minutes maximum

#### Current Rating:

1.5 Amps

#### Voltage Rating:

125 Volts AC

#### Dielectric Withstanding Voltage:

1000 VDC, 60Hz. 1 minute

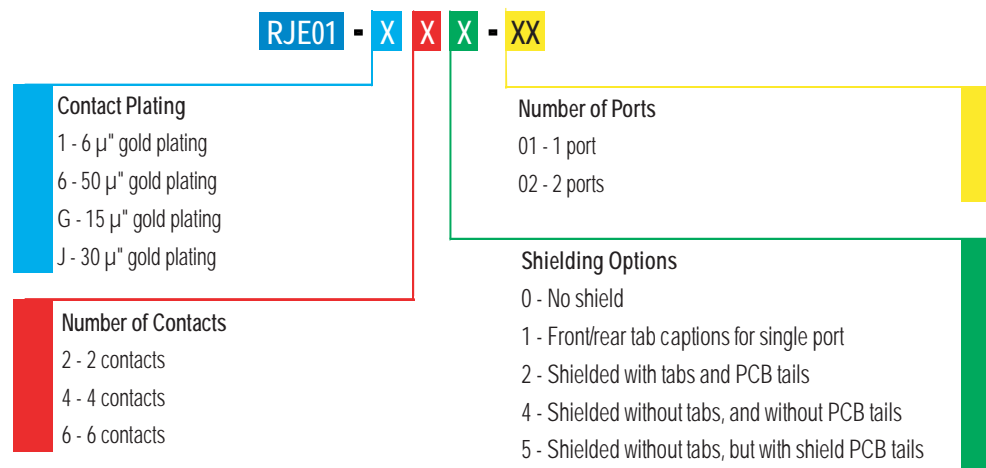
#### UL File #

E135615

#### CSA File #

LR68598

## Ordering Information



# RJE01 SERIES

RJ11 (SIX POSITION)

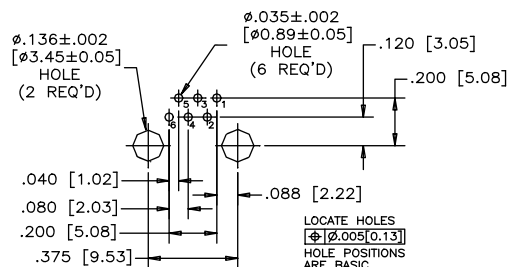
## Single Port

### Non-Shielded

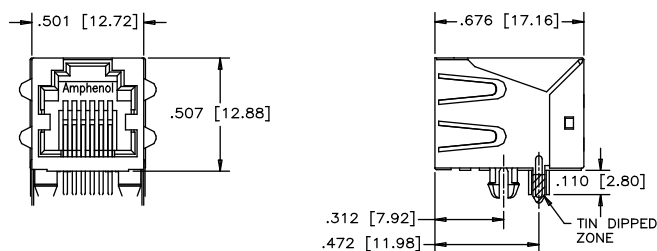


RJE01-660-01

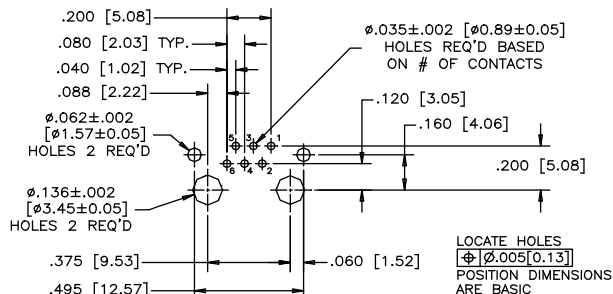
### PCB Layout



### Shielded



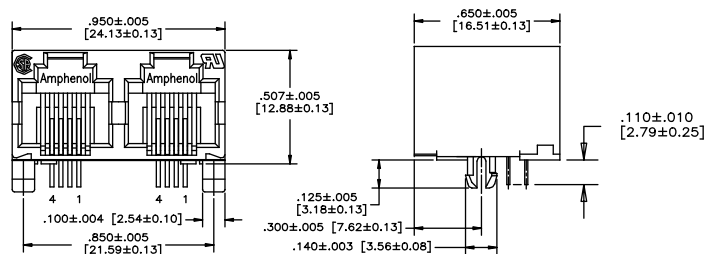
### PCB Layout



RJE01-662-01

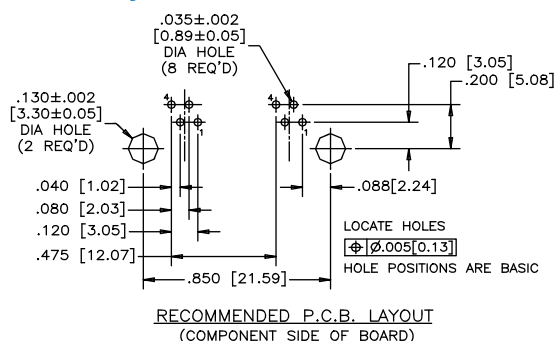
## Multi Port

### Non-Shielded

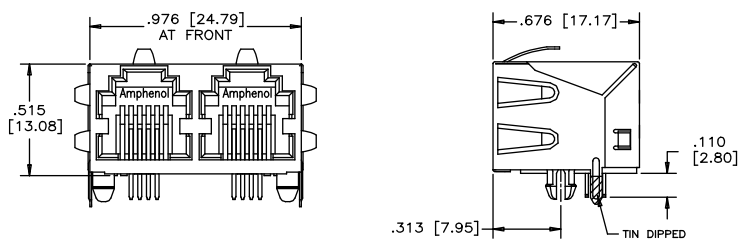


RJE01-660-02

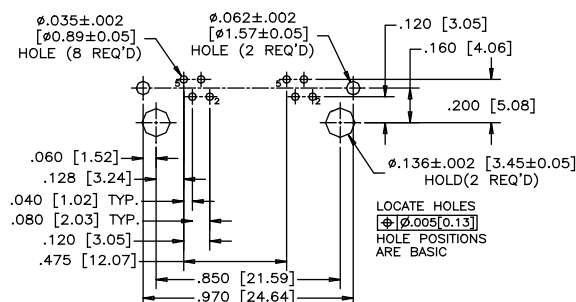
### PCB Layout



### Shielded



### PCB Layout

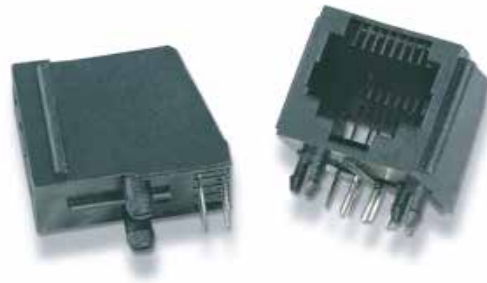


RJE01-662-02

## Single Port High Profile

RJE02 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE02 family include flanged & without flanged, RJ11 & RJ45 configurations.



## Specifications

### Material

Housing: High Strength Thermoplastic Polyester  
Flammability Rating UL94V-0

Contacts: Phosphor bronze  
Contact Plating: Gold over nickel on mating area, matte-tin plating on soldering tail

## Ordering Information

RJE02 - 1 X X - 0 X X 0

### Number of Positions

- 6 - 6 position
- 8 - 8 position

### Flange Options

- 1 - Without flange
- 2 - With flange

### Number of Contacts

- 2 - 2 contacts
- 4 - 4 contacts
- 6 - 6 contacts
- 8 - 8 contacts

### Contact Plating

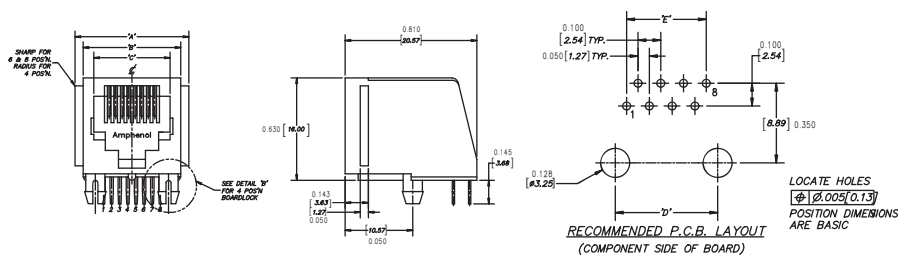
- 1 - 6  $\mu$ " gold plating
- 2 - 15  $\mu$ " gold plating
- 3 - 30  $\mu$ " gold plating
- 4 - 50  $\mu$ " gold plating

## Single Port

RJE02-1XX-0X20

### Non-Shielded

### PCB Layout



PART NUMBER	NO. OF POSITIONS	NO. OF CONTACTS	DIMENSIONS					QUANTITY PER TRAY	QUANTITY PER CARTON
			'A'	'B'	'C'	'D'	'E'		
RJE02-142-0X20	4	2	0.540 [13.72]	0.440 [11.18]	0.309 [7.85]	0.300 [7.62]	0.050 [1.27]	120	2160
RJE02-144-0X20	4	4	0.540 [13.72]	0.440 [11.18]	0.309 [7.85]	0.300 [7.62]	0.150 [3.81]	120	2160
RJE02-162-0X20	6	2	0.620 [15.75]	0.520 [13.21]	0.389 [9.88]	0.400 [10.16]	0.050 [1.27]	120	2160
RJE02-164-0X20	6	4	0.620 [15.75]	0.520 [13.21]	0.389 [9.88]	0.400 [10.16]	0.150 [3.81]	120	2160
RJE02-166-0X20	6	6	0.620 [15.75]	0.520 [13.21]	0.389 [9.88]	0.400 [10.16]	0.250 [6.35]	120	2160
RJE02-188-0X20	8	8	0.700 [17.78]	0.600 [15.24]	0.469 [11.91]	0.450 [11.43]	0.350 [8.89]	100	1800

# RJE03 SERIES

SINGLE PORT LOW PROFILE

## Single Port Low Profile

RJE03 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE03 family include shielded & non shielded, RJ11 & RJ45 configurations.



## Specifications

### Materials

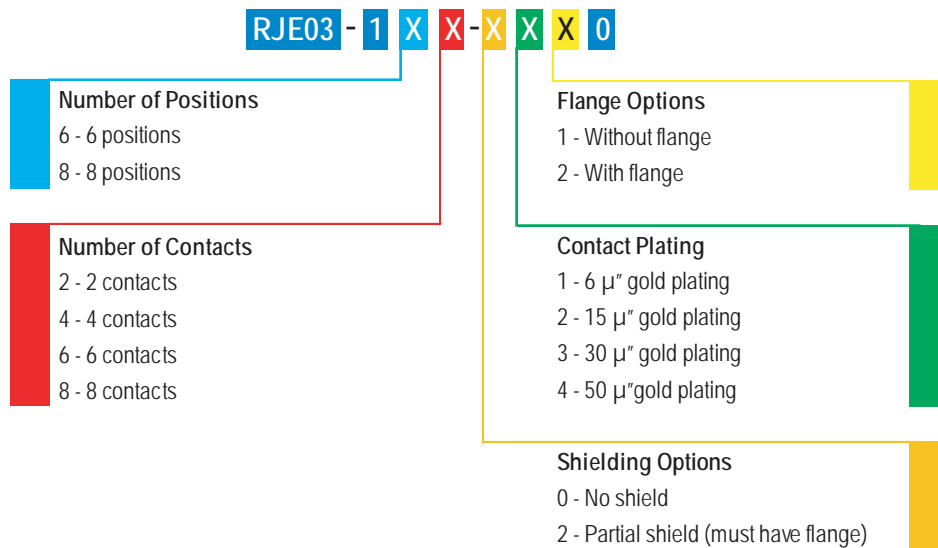
**Insulator:** High strength thermoplastic polyester  
flammability rating UL94V-0

**Contacts:** Phosphor bronze

**Contact Plating:** Gold over nickel on mating area, matte tin on tails

**Shield:** Copper alloy, nickel plated with tin dipped tail

## Ordering Information

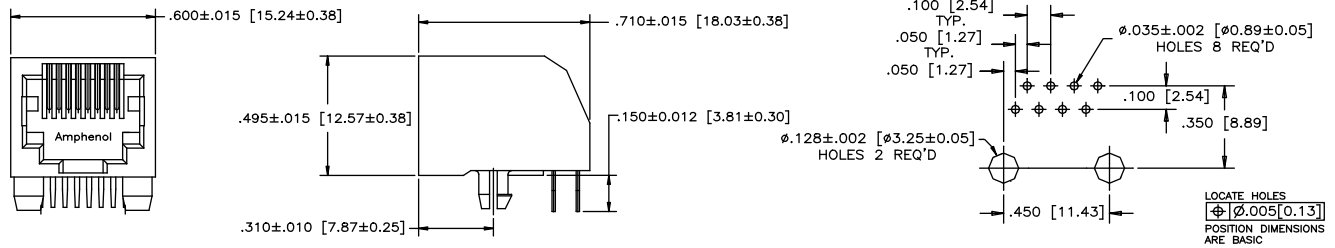


## Single Port

**RJE03-188-0410**

## Non-Shielded

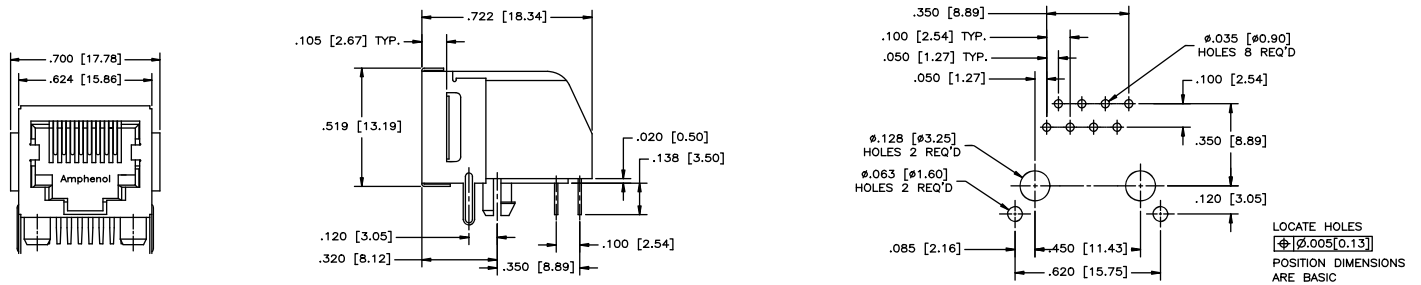
## PCB Layout



## Shielded with Flange

## PCB Layout

RJE03-188-2420



## Notes

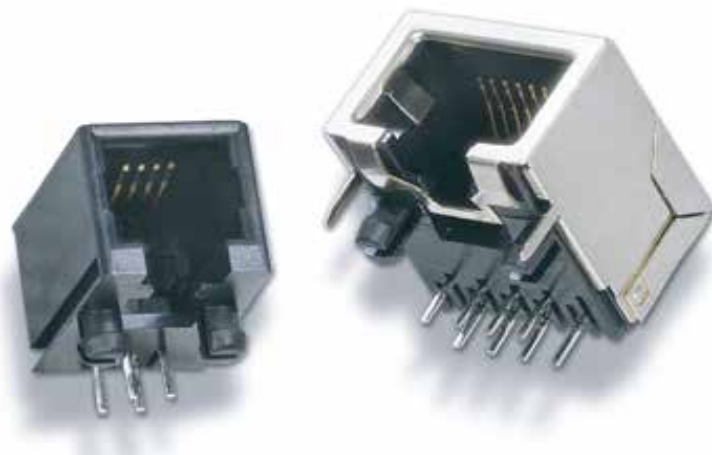
# RJE05 SERIES

ULTRA LOW PROFILE

## Ultra Low Profile

RJE05 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE05 family include Right Angle / Vertical, Shielded & Non Shielded, RJ11 & RJ45 configurations.



## Specifications

### Materials

Housing:	High strength thermoplastic polyester flammability rating UL94V-0
Contacts:	Phosphor bronze
Contact Plating:	Gold over nickel on mating area, matte-tin plating on soldering tail

Shield:	Copper alloy, nickel plated with tin dipped tail
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### Electrical

UL File #:	E136228
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## Ordering Information

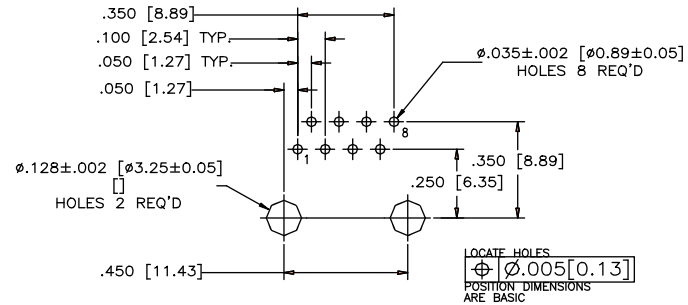
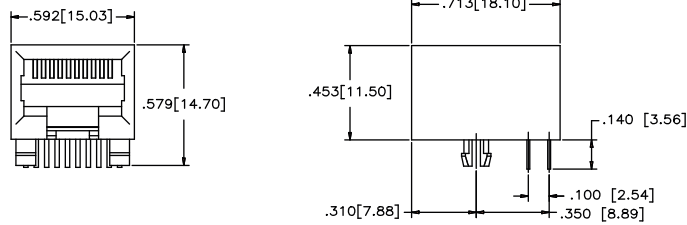
RJE05 - 1 X X - X X 1 0									
Number of Positions				Contact Plating					
4 - 4 position				1 - 6 $\mu$ " gold plating					
6 - 6 position				2 - 15 $\mu$ " gold plating					
8 - 8 position				3 - 30 $\mu$ " gold plating					
Number of Contacts				4 - 50 $\mu$ " gold plating					
2 - 2 contacts				Shielding Options					
4 - 4 contacts				0 - No shield					
6 - 6 contacts				1 - Shield					
8 - 8 contacts									

## Single Port

### Non-Shielded

RJE05-188-0410

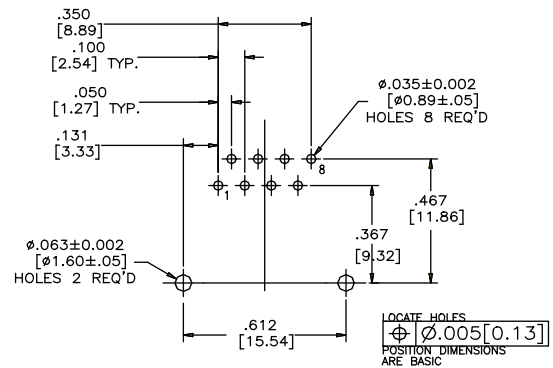
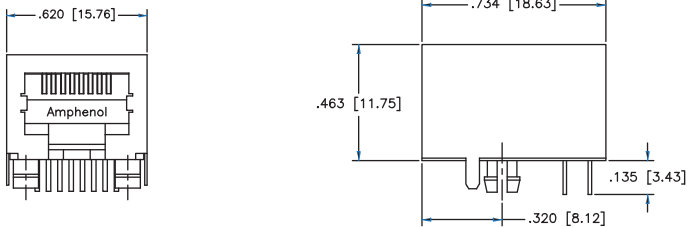
### PCB Layout



### Shielded

RJE05-188-1410

### PCB Layout



## Notes

# RJE07 SERIES

SINGLE PORT SURFACE MOUNT

## Single Port Surface Mount

RJE07 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE07 family include shielded & non shielded, RJ11 & RJ45 configurations.



## Specifications

### Materials

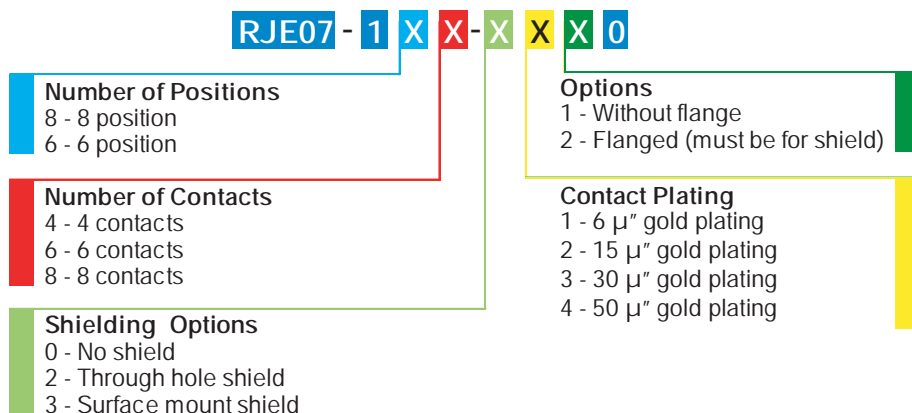
**Housing:** High temperature resistant nylon flammability rating UL94V-0  
**Contacts:** Phosphor bronze  
**Contact Plating:** Gold over nickel on mating area, matte-tin plating on soldering tail

**Shield:** Copper alloy, nickel plated with tin dipped tail

### Electrical

**UL File #:** E136228

## Ordering Information

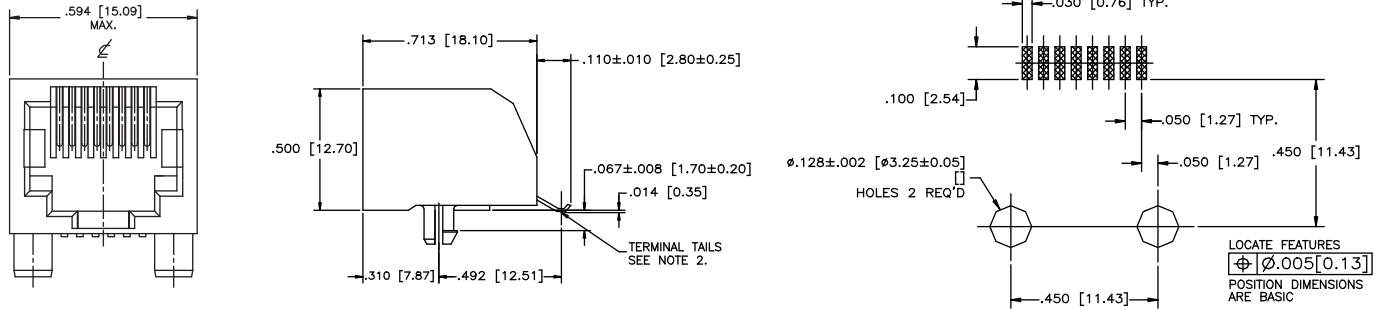


## Single Port

### Non-Shielded

RJE07-188-0410

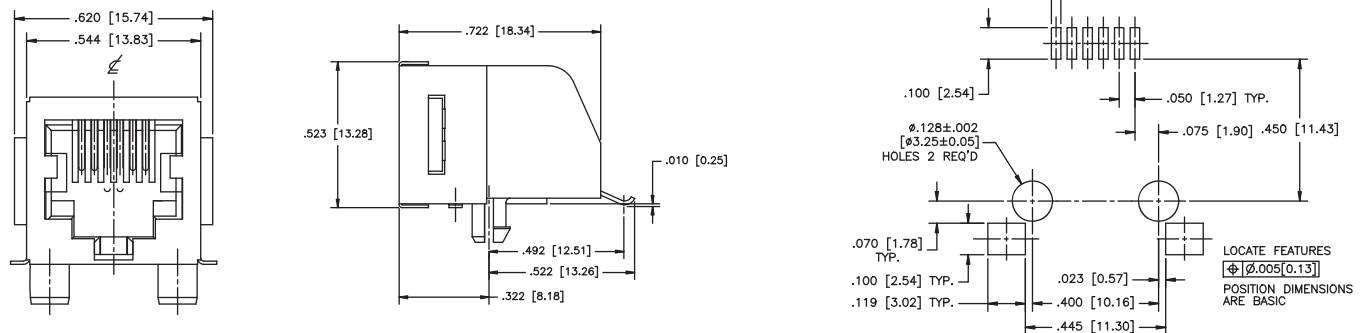
### PCB Layout



### Surface Mount Shield

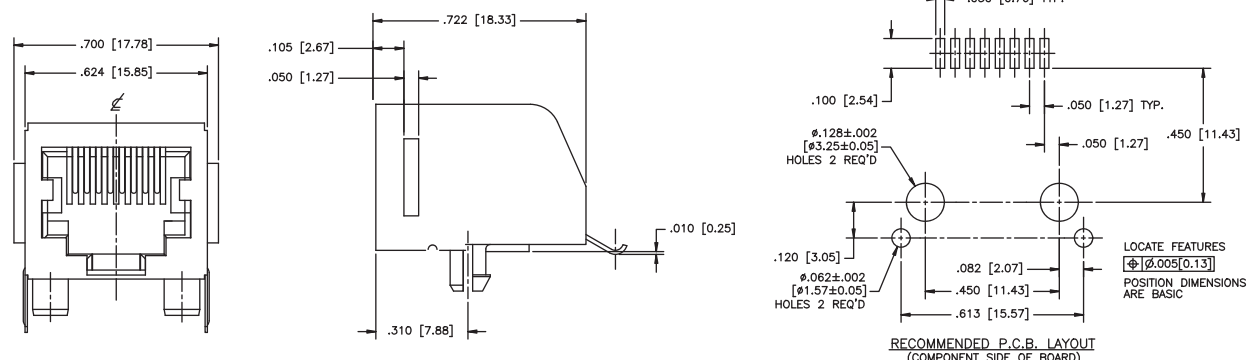
RJE07-188-3420

### PCB Layout



### Through Hole Shield

RJE07-188-2420



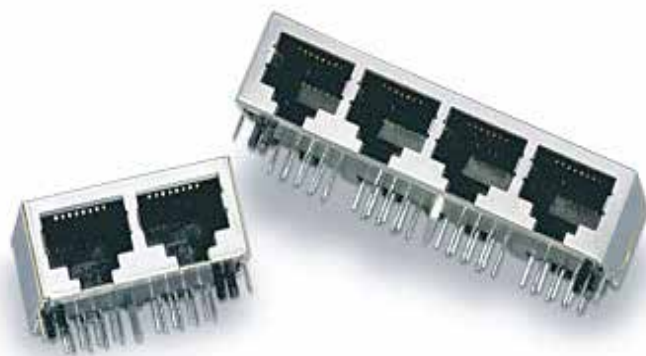
# RJE09 SERIES

STANDARD PROFILE

## Standard Profile

RJE09 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE09 family include shielded & non shielded, RJ11 & RJ45 configurations.



## Specifications

### Materials

<b>Housing:</b>	High Strength Thermoplastic Polyester Flammability Rating UL94V-0
<b>Contacts:</b>	Phosphor bronze
<b>Contact Plating:</b>	Gold over nickel on mating area, matte-tin plating on soldering tail

<b>Shield:</b>	Copper alloy, nickel plated with tin dipped tail
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<b>Electrical</b>	
<b>UL File #:</b>	E136228

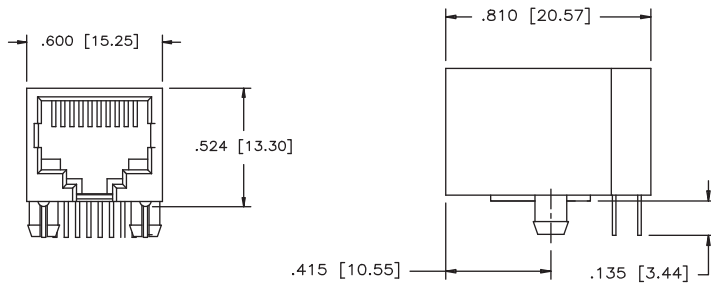
## Ordering Information

<b>RJE09</b>		-	<b>X</b>	<b>X</b>	<b>X</b>	-	<b>X</b>	<b>X</b>	<b>X</b>	<b>1</b>	<b>0</b>
<b>Number of Ports</b>											
1 - 1 port											
2 - 2 ports											
4 - 4 ports											
6 - 6 ports											
8 - 8 ports											
<b>Number of Positions</b>											
6 - 6 position											
8 - 8 position											
A - 10 position											
<b>Contact Plating</b>											
1 - 6μ" gold plating											
2 - 15μ" gold plating											
3 - 30μ" gold plating											
4 - 50μ" gold plating											
<b>Shielding</b>											
0 - No shield											
1 - Shield											
<b>Number of Contacts</b>											
4 - 4 contacts											
6 - 6 contacts											
8 - 8 contacts											
A - 10 contacts											

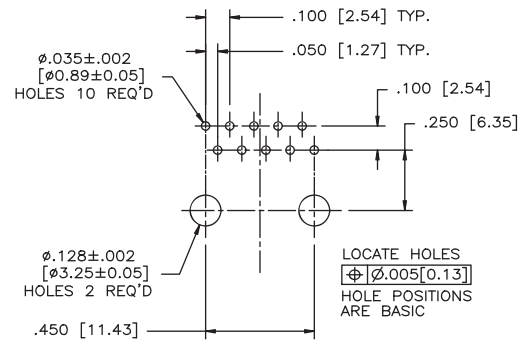
## Single Port

RJE09-1AA-0410

### Non-Shielded

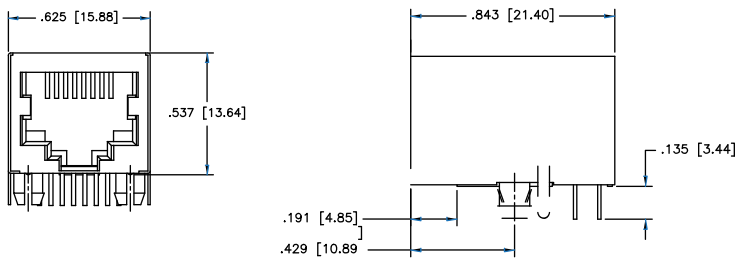


### PCB Layout

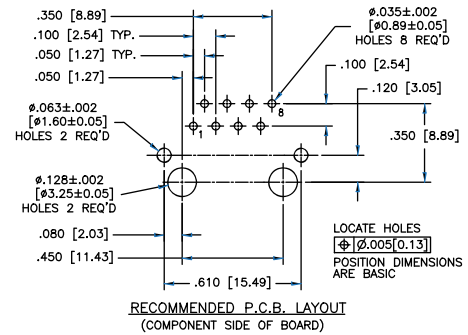


RJE09-188-1410

### Shielded



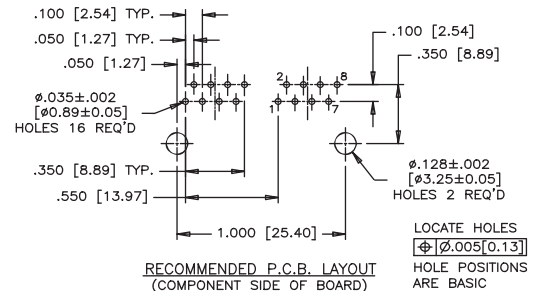
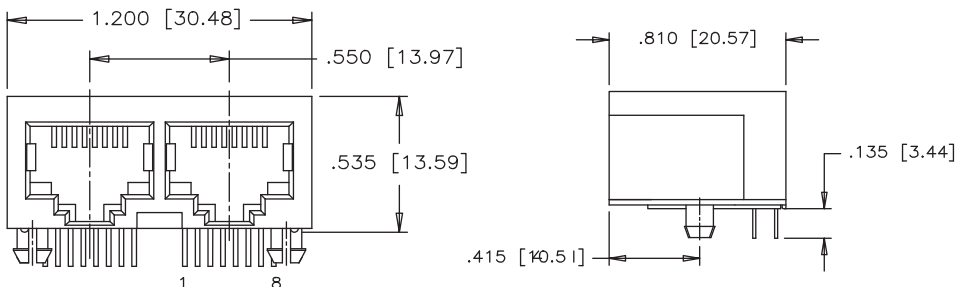
### PCB Layout



## Multi Port

RJE09-288-0410

### Non-Shielded

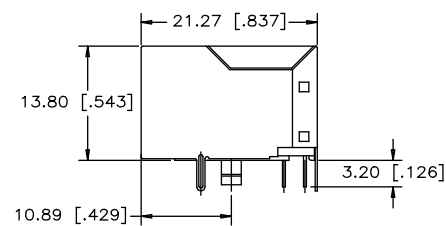
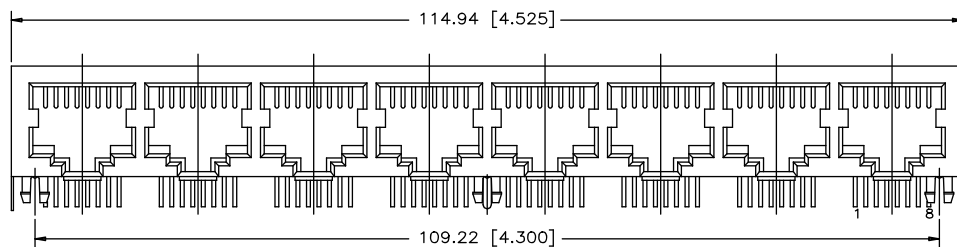


# RJE09 SERIES

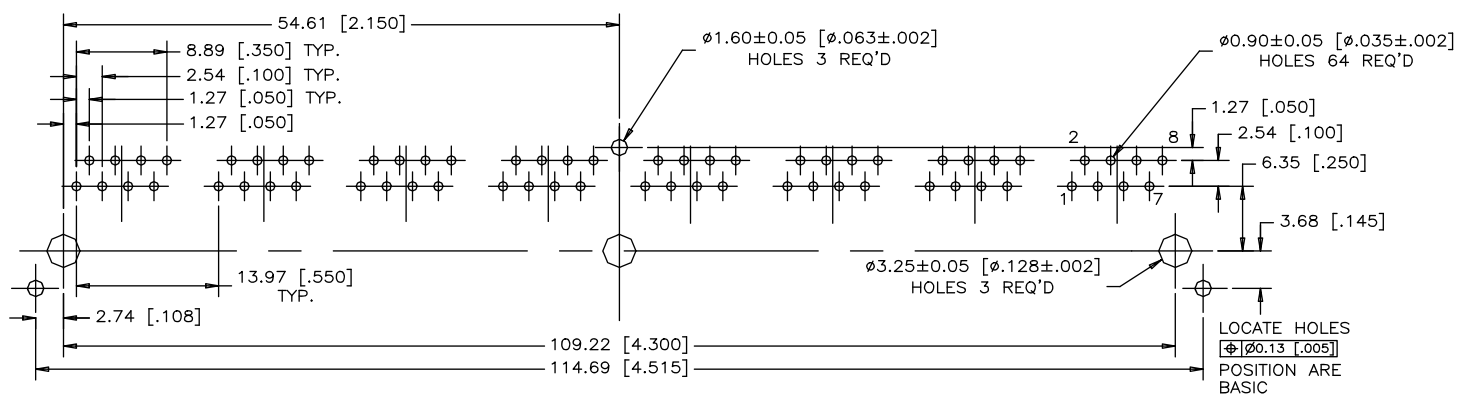
STANDARD PROFILE

## Shielded

RJE09-888-1410

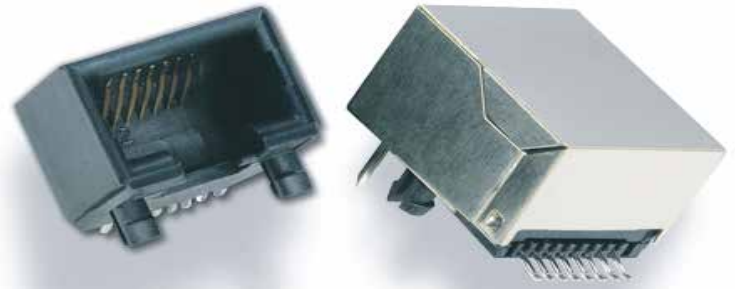


## PCB Layout



## Single Port Low Profile

The RJE15 low profile style connector is built to meet your high volume RJ requirements. This series is true pick and place compatible SMT connectors and are available with different shielding, number of contacts, plating thickness, and colour options. Built with high temperature engineering thermoplastic. Suitable for IR Reflow solder process.



## Specifications

### Material

<b>Housing:</b>	High Strength Thermoplastic Polyester Flammability Rating UL94V-0
<b>Contacts:</b>	Phosphor bronze

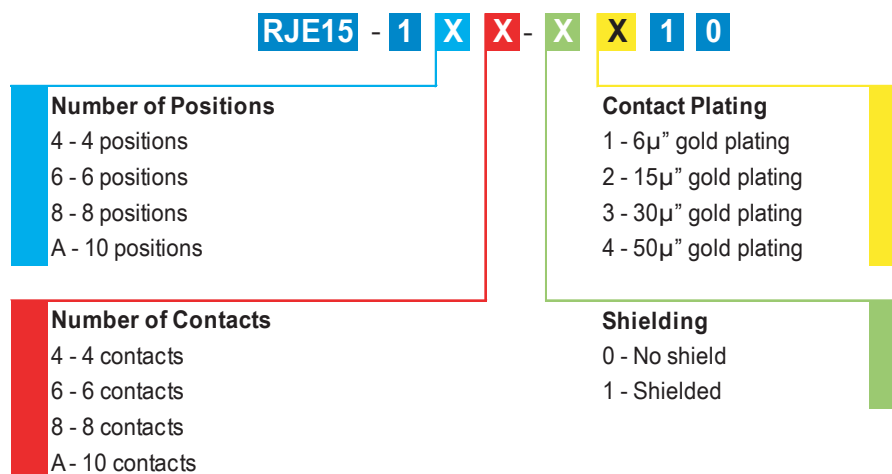
### Contact Plating:

Gold over nickel on mating  
Area, matte-tin plating on soldering tail

### Shield:

Copper alloy, Nickel plated with tin  
dipped tail

## Ordering Information



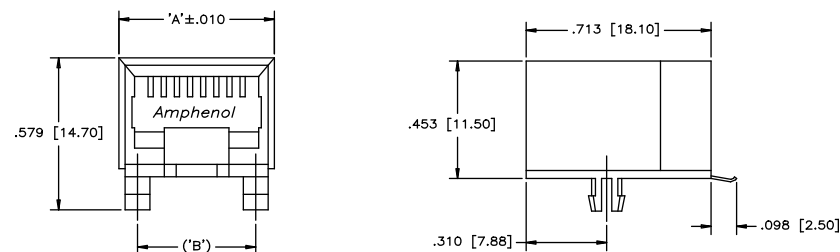
# RJE15 SERIES

SINGLE PORT LOW PROFILE

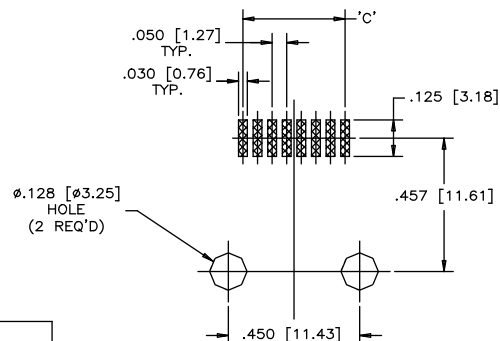
## Single Port

### Non-Shielded

RJE09-1XX-0410



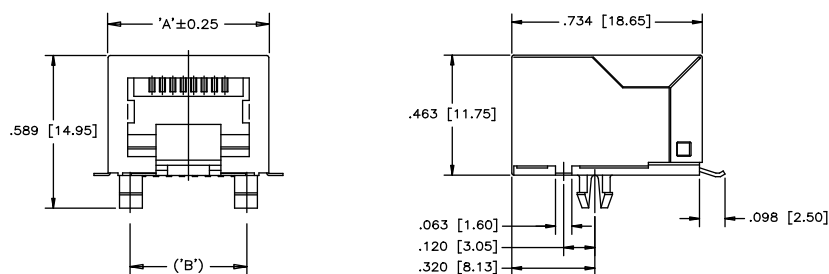
### PCB Layout



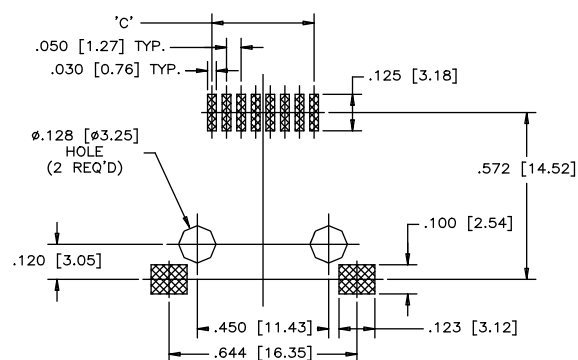
NO. OF POSITIONS	DIMENSIONS		
	'A'	'B'	'C'
4	.441 [10.43]	.300 [7.62]	.150 [3.81]
6	.510 [12.95]	.400 [10.16]	.250 [6.35]
8	.592 [15.04]	.450 [11.43]	.350 [8.89]
10	.620 [15.74]	.450 [11.43]	.450 [11.43]

RJE09-1XX-1410

### Shielded



### PCB Layout



NO. OF POSITIONS	DIMENSIONS		
	'A'	'B'	'C'
4	.469 [11.92]	.300 [7.62]	.150 [3.81]
6	.538 [13.67]	.400 [10.16]	.250 [6.35]
8	.620 [15.74]	.450 [11.43]	.350 [8.89]
10	.620 [15.74]	.450 [11.43]	.450 [11.43]

## Recessed, Low Profile

The RJULE is a series of single port RJ45 modular jacks designed for slim profile applications. With a profile height of less than 10mm this connector is perfect where height is limited. Standard and rear mount shield options for superior EMI performance makes this part ideal for LAN and router applications.



## Specification

### Material

<b>Housing:</b>	High temperature engineering thermoplastic, flammability rating UL 94V-0
<b>Contacts:</b>	Phosphor bronze
<b>Plating:</b>	Gold plated on mating surfaces over 50μ" (1.27 microns) minimum nickel underplate
<b>Shield:</b>	Copper alloy; Nickel plated

### Electrical

<b>Contact Resistance:</b>	20 Milliohms maximum
<b>Insulation Resistance:</b>	500 Megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.5 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute

### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. Maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. Minimum
<b>Durability:</b>	750 Mating and unmating cycles
<b>Recommended Soldering Temperature:</b>	Wave soldering peaked at 260°C for 5 seconds maximum

## Ordering Information

RJULE - 4 X X X X - XX X									
<b>Contact Plating</b>				<b>Packaging</b>					
0 - 1 ~ 3 μ" gold plating				Blank - Tray					
1 - 15 μ" gold plating				T - Tape and reel					
2 - 30 μ" gold plating									
3 - 50 μ" gold plating									
<b>Housing Options</b>				<b>Number of Ports</b>					
1 - Black				01 - 1 Port					
2 - Yellow				02 - 2 Ports					
3 - Red				14 - 4 Ports (1x4)					
<b>Number of Contacts</b>				<b>Shielding Options</b>					
4 - 4 contacts				0 - No shield					
6 - 6 contacts				1 - Standard shield					
8 - 8 contacts				2 - Shield with side ground tabs design to touch with mounting panel					
				3 - Shield without ground tab					

# RJULE SERIES

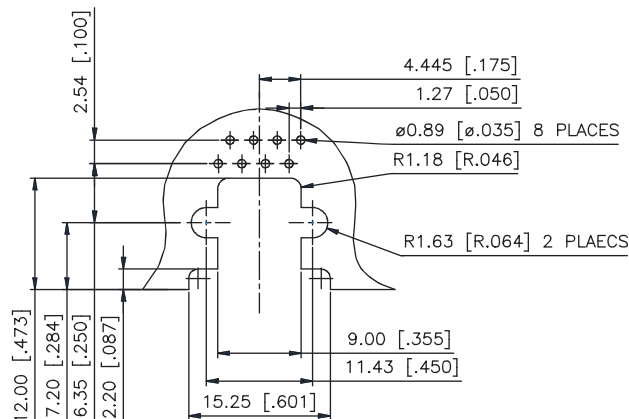
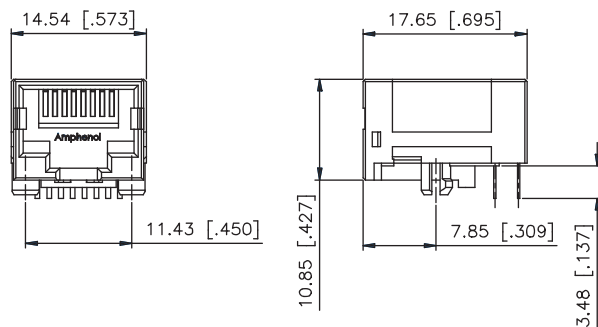
RECESSED, LOW PROFILE

## Single Port

RJULE-43180-01

### Non-Shielded

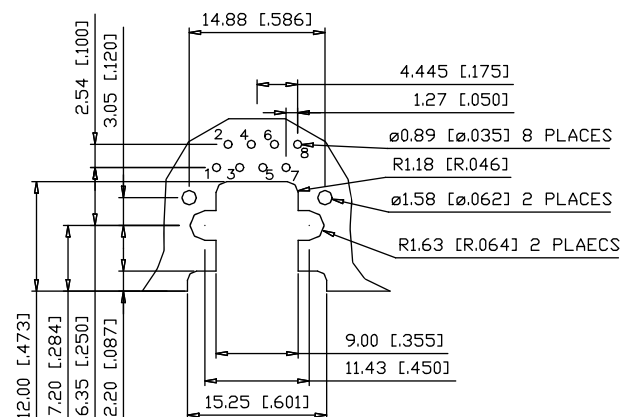
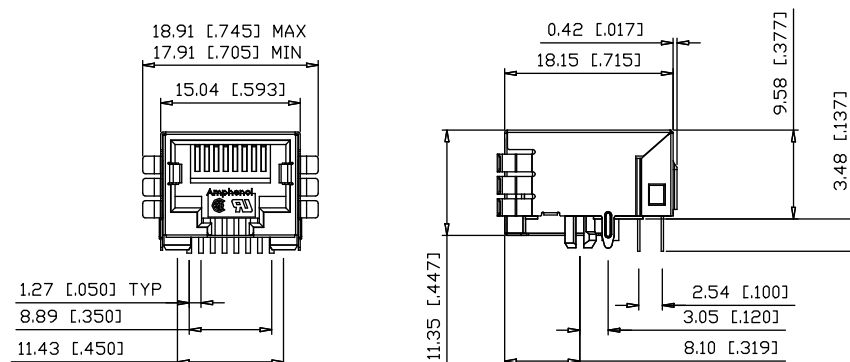
### PCB Layout



RJULE-43182-01

### Shielded with Side Ground Tabs

### PCB Layout

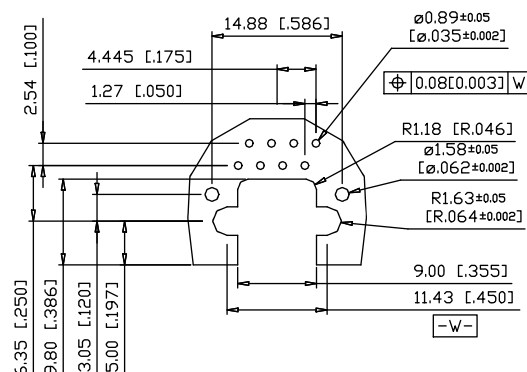
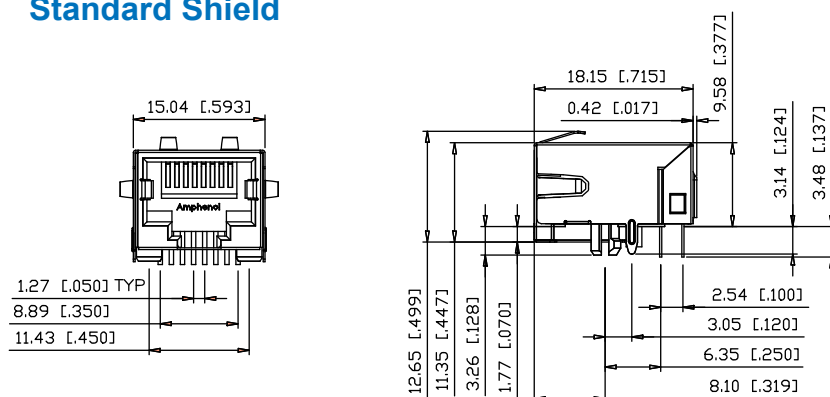


## Single Port

RJULE-43181-01

### Standard Shield

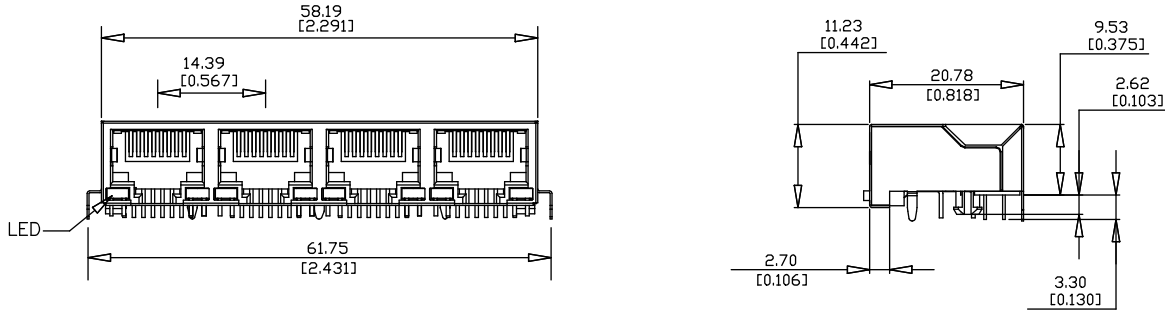
### PCB Layout



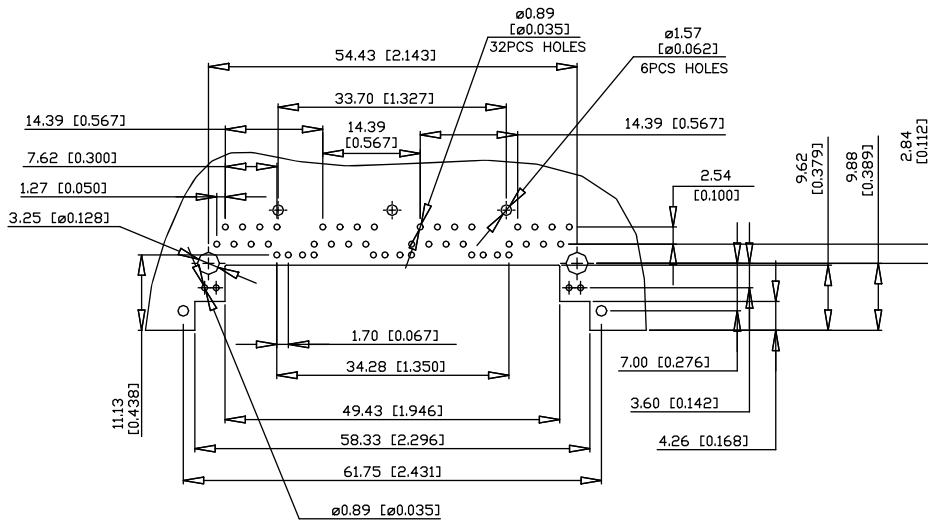
## Multi Port

RJULE-43183-14

### Shielded with Side Tab



### PCB Layout



# RJE56 SERIES

RJ45 PRESS FIT

## RJ45 Press Fit

The RJE56 series is designed for applications where soldering is just not an option. The pressfit contacts and shield tabs have the "Eye of the Needle" design and provide good PCB retention and reliable electrical performance.



## Specifications

### Material

<b>Shield:</b>	Copper alloy; Nickel plated
<b>Contacts:</b>	Phosphor bronze; Gold over nickel
<b>Housing:</b>	High temperature thermoplastic complies with UL 94V-0, black colour

### 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>	1000 VAC, RMS. 60Hz. 1 minute

### Other Parameters

Operating Temperature:	-40 °C to 70 °C
Lead Soldering Temperature:	260 °C (5 sec)

## Ordering Information

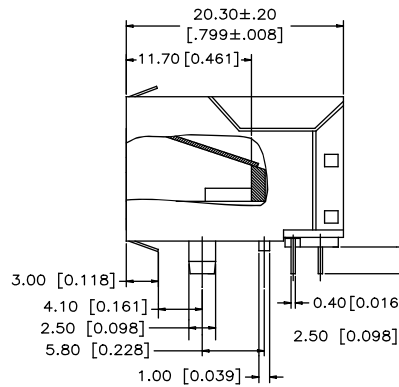
<b>RJE56 - X X X - X X 1 0 - X</b>									
<b>Number of Ports</b>				<b>Packaging</b>					
1 - 1 port				Blank - Tray					
2 - 2 ports				T - Tape and reel					
3 - 3 ports									
4 - 4 ports									
<b>Number of Positions</b>				<b>Contact Plating</b>					
6 - 6 Positions				1 - 6 µ" gold plating					
8 - 8 Positions				2 - 15 µ" gold plating					
				3 - 30 µ" gold plating					
				4 - 50 µ" gold plating					
<b>Number of Contacts</b>				<b>Shielding Options</b>					
4 - 4 contacts				0 - No shield					
6 - 6 contacts				1 - Full shield					
8 - 8 contacts				2 - Partial shield					

**RJE56-188-1410**

Technical drawing of the Amphenol connector housing, showing dimensions in millimeters and inches. The drawing includes a top view and a side view. The top view shows a rectangular housing with a central rectangular opening. The side view shows the housing with a flange and a central opening. Dimensions are provided for the overall size, the central opening, and the flange. The central opening is labeled "Amphenol".

Dimensions (mm) and (inches):

- Overall width: 13.50 ± 0.15 [0.531 ± 0.006]
- Central opening width: 6.80 [0.268]
- Overall height: 13.50 ± 0.20 [0.531 ± 0.008]
- Flange thickness: 1.35 [0.053]
- Flange width: 0.90 [0.035]
- Flange height: 2.80 [0.110]
- Flange width (bottom): 3.37 [0.132]
- Flange width (right): 0.45 [0.018]
- Flange width (left): 0.81 [0.032]

[illegible]

**Amphenol® Canada Telephone: (416) 754-5656 Fax: (416) 754-8668 Email: [sales@amphenolcanada.com](mailto:sales@amphenolcanada.com)**  
**All specifications are subject to change without notice.**

# RJE73 SERIES

RJ45 LOW PROFILE WITH LED'S

## RJ45 Low Profile with LED's

The RJE73 Modular Jack is a low profile RJ45 with LED's and superior EMI shielding with a small foot print for space sensitive designs and built-in LED's for link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.



## Specifications

### Material

<b>Housing:</b>	High temperature thermoplastic. Complies with UL 94V-0, black colour
<b>Contacts:</b>	Phosphor bronze hard temper with gold plating options 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin on solder tails
<b>Shield:</b>	Stainless steel with tin dipped tails
<b>LED:</b>	Tin plating on LED tails

### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. Maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. Minimum
<b>Durability:</b>	750 Mating and unmating cycles

### Recommended Soldering

<b>Temperature:</b>	245°C for 8 to 10 seconds maximum
<b>Operating Temperature:</b>	-55°C to +85°C

### Electrical

<b>Contact Resistance:</b>	20 Milliohms maximum
<b>Insulation Resistance:</b>	500 Megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.0 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute
<b>LED Forward DC Current:</b>	20mA typical
<b>LED Forward Voltage:</b>	1.9 Volts maximum @ 2mA (for single colours) 2.6 Volts maximum @ 20mA (for Bi-colours)
<b>LED Reverse Voltage:</b>	5 Volts minimum
<b>LED Light Intensity:</b>	0.4 to 1.5 mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours)
<b>LED Wave Length:</b>	Yellow: 587 ± 7 nm measured @ 20mA Green: 565 ± 6 nm measured @ 20mA Red: 625 ± 5 nm measured @ 20mA

## Ordering Information

RJE73 - 1 8 8 - 0 0 X X X

#### Contact Plating

- 1 - 6 µ" gold plating
- 2 - 15 µ" gold plating
- 3 - 30 µ" gold plating
- 4 - 50 µ" gold plating

#### Ground Tabs Option

- 0 - Without tabs
- 1 - With side and top tabs

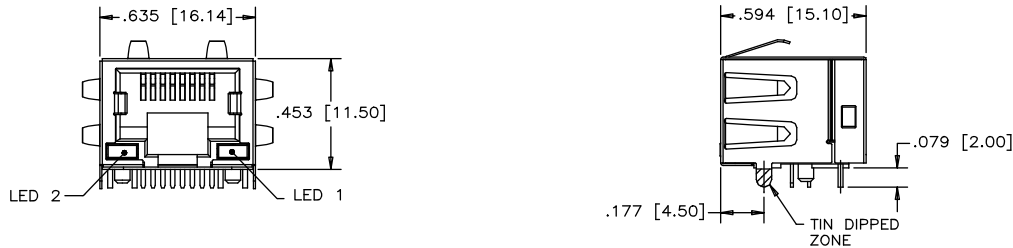
#### LED Options

Please refer to page 3 for options

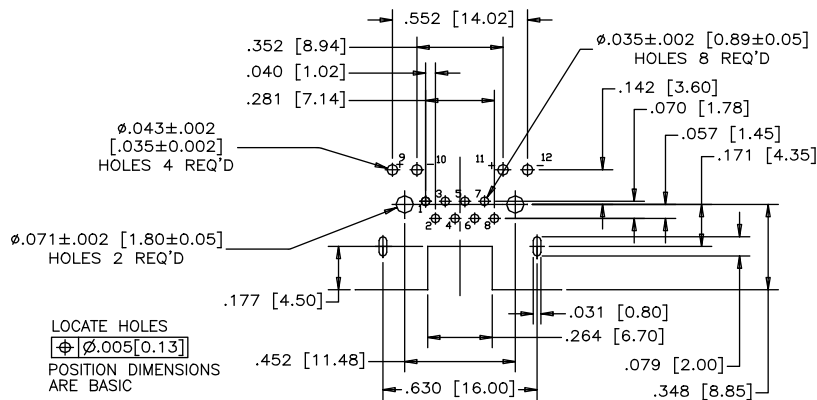
## Single Port

RJE73-188-00411

### Shielded



### PCB Layout



### Notes

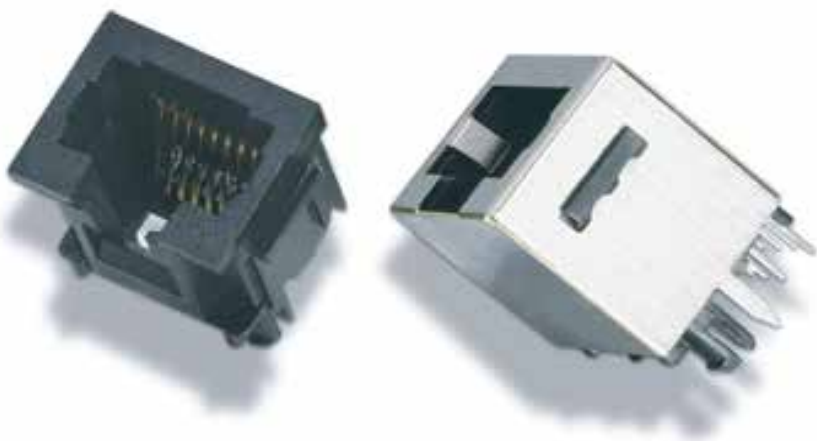
# RJE06 SERIES

SINGLE PORT SLIM PROFILE

## Single Port Slim Profile

RJE06 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE06 family include shielded & non shielded, RJ11 & RJ45 configurations.



## Specifications

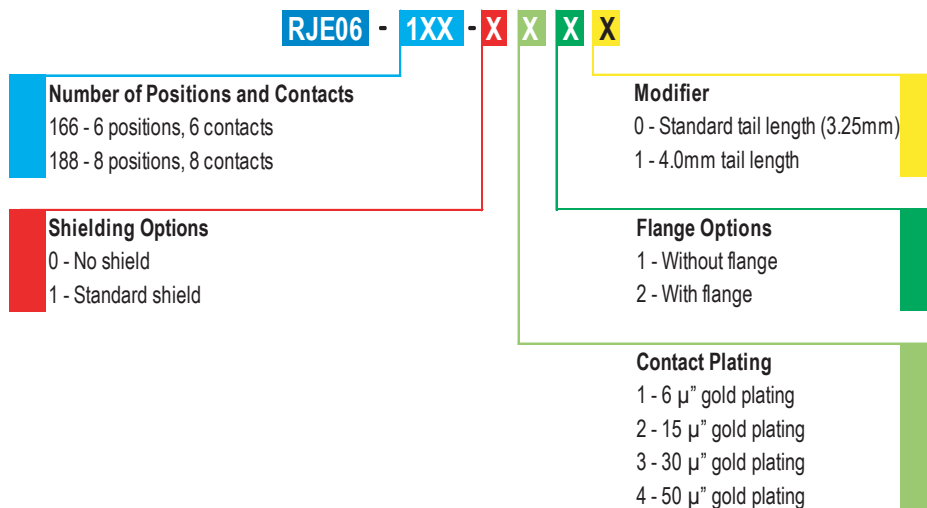
### Materials

<b>Housing:</b>	High strength thermoplastic polyester flammability rating UL94V-0
<b>Contacts:</b>	Phosphor bronze
<b>Contact Plating:</b>	Gold over nickel on mating area, matte-tin plating on soldering tail

<b>Shield:</b>	Copper alloy, nickel plated with tin dipped tail
----------------	---

<b>Electrical</b>	
<b>UL File #:</b>	E136228

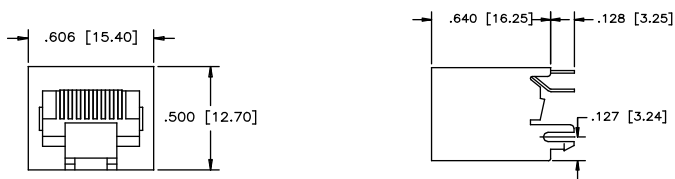
## Ordering Information



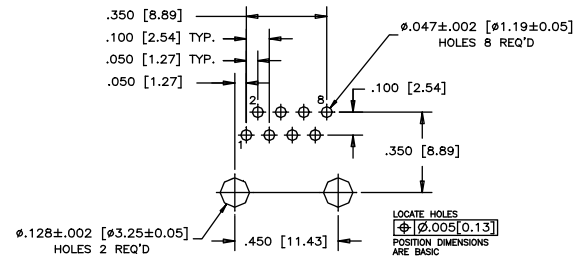
## Single Port

RJE06-188-0410

### Non-Shielded



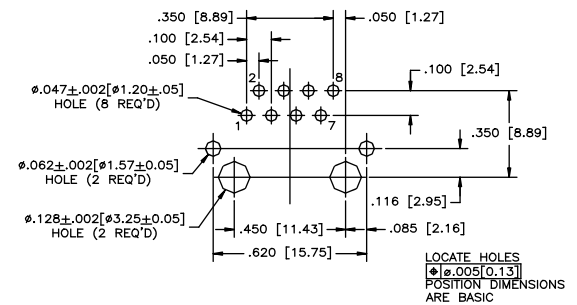
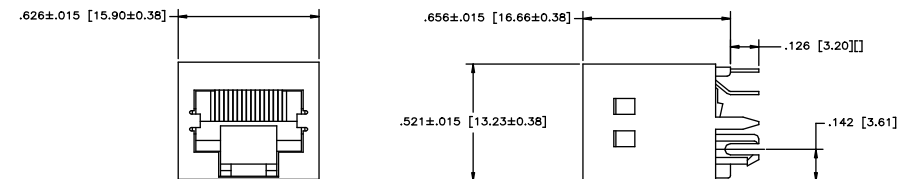
### PCB Layout



RJE06-188-1410

### Shielded

### PCB Layout



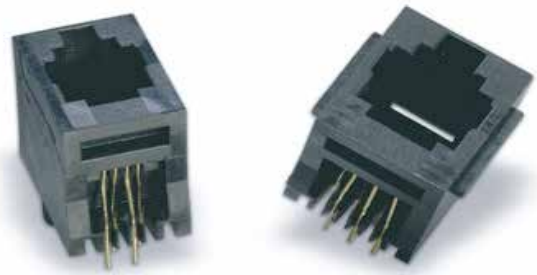
## Notes

## SINGLE PORT STANDARD PROFILE

## Single Port Standard Profile

RJE08 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications.

Options within the RJE08 family include with & without flange, RJ11 & RJ45 configurations.



## Specifications

## Material

<b>Housing:</b>	High Strength Thermoplastic Polyester Flammability Rating UL94V-0
<b>Contacts:</b>	Phosphor bronze

**Contact Plating:** Gold over nickel on mating area, matte-tin plating on soldering tail

**Electrical**  
UL File #: E136228

## Ordering Information

RJE08 - 1 X X - 0 X X 0

## Number of Positions

- 4 - 4 positions
- 6 - 6 positions
- 8 - 8 positions

## Number of Contacts

- 4 - 4 contacts
- 6 - 6 contacts
- 8 - 8 contacts

## Flange Options

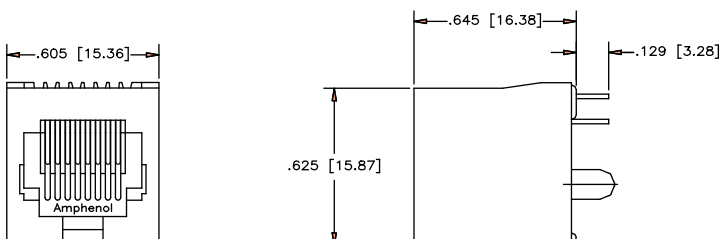
1 - Without flange  
2 - Flanged

## Contact Plating

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

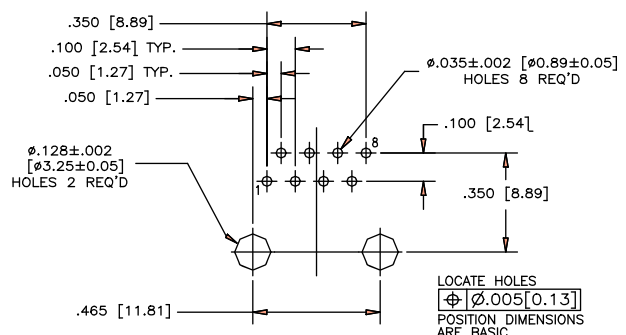
## Single Port

## Non-Shielded



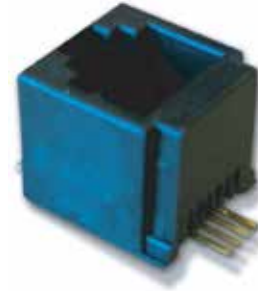
**RJE08-188-0410**

## PCB Layout



## Single Port Surface Mount

The RJE23 series is designed for high volume production where a vertical modular jack is required. Shielding provides increased EMI performance. Surface mount contacts and a fitting nail bracket assist in speeding up the production process.



## Specification

### Material

<b>Housing:</b>	High temperature thermoplastic. Complies with UL 94V-0, black colour
<b>Shield:</b>	Copper alloy; Matte tin plating
<b>Contacts:</b>	Phosphor bronze hard temper with gold thickness options (6µ", 15µ", 30µ", 50µ") over 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin over nickel on soldering tail
<b>Hold Down:</b>	Copper alloy; Matte tin plating
<b>Coplanarity:</b>	Maximum gap between all terminal tails is .004"

### Electrical

<b>Contact Resistance:</b>	20 Milliohms maximum
<b>Insulator Resistance:</b>	500 Megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.5 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute

### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. Maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. Minimum
<b>Durability:</b>	750 Mating & unmating cycles
<b>Operating Temperature:</b>	-55°C to + 85°C
Connector is suitable for IR reflow	

## Ordering Information

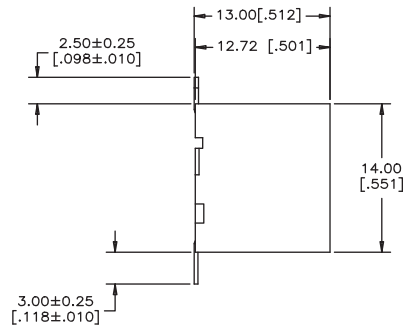
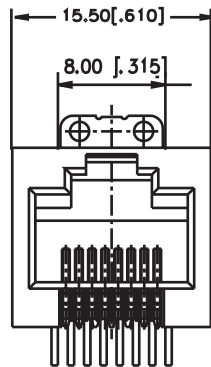
RJE23 - X X X - X X X 0 - X	
<b>Number of Ports</b> 1 - 1 port 2 - 2 ports 3 - 3 ports 4 - 4 ports	<b>Packaging</b> Blank - Standard B - Tray T - Tape and reel
<b>Number of Positions</b> 2 - 2 positions 4 - 4 positions 6 - 6 positions 8 - 8 positions	<b>Housing/Flange Option</b> 1 - Black housing without flange 2 - Black housing with flange
<b>Number of Contacts</b> 2 - 2 contacts 4 - 4 contacts 6 - 6 contacts 8 - 8 contacts	<b>Contact Plating</b> 1 - 6 µ" gold plating 2 - 15 µ" gold plating 3 - 30 µ" gold plating 4 - 50 µ" gold plating
	<b>Shield Options</b> 0 - No shield 1 - Full shield 2 - Partial shield with surface mount tabs

# RJE23 SERIES

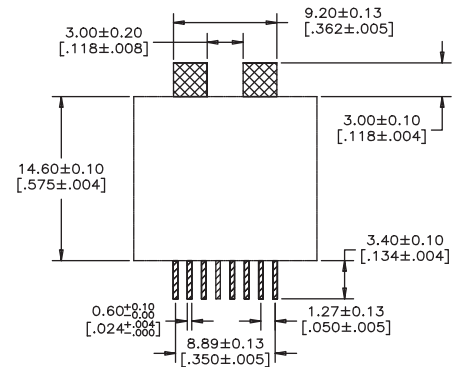
SINGLE PORT SURFACE MOUNT

## Single Port

### Non-Shielded

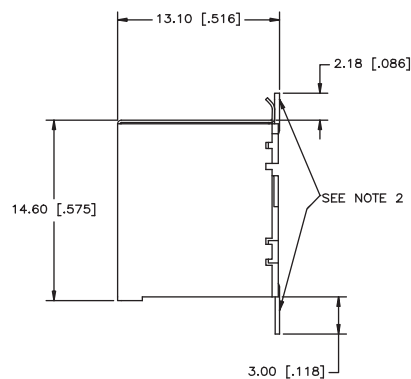
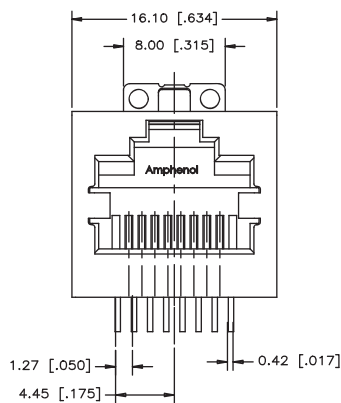


### PCB Layout

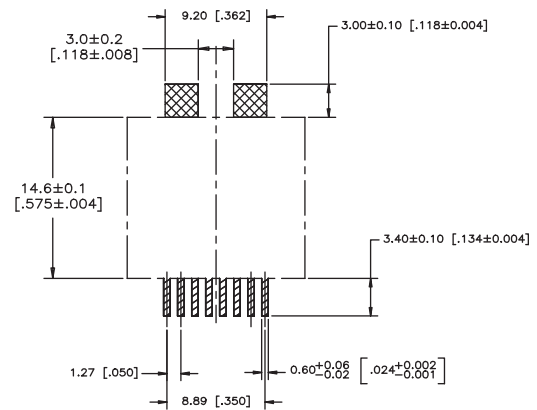


RJE23-188-0410

### Shielded



### PCB Layout



## Single Port

The RJE74 is built to fit your registered jack requirements. It is a vertical 10P10C available with RMK4 keying and superior EMI shielding. Includes optional Mylar cover for automated assembly equipment.



## Specifications

### Material

<b>Housing:</b>	High temperature thermoplastic. Complies with UL 94V-0. Black colour
<b>Contacts:</b>	Phosphor bronze hard temper with 30µ" minimum gold thickness over 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin plating on soldering tail
<b>Shield:</b>	Stainless steel; pure tin dipped tails
<b>LED:</b>	Tin plating on LED tails

### Electrical

<b>Contact Resistance:</b>	20 milliohms maximum
<b>Insulation Resistance:</b>	500 megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.5 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute

### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. Maximum
<b>Recommended Soldering Temperature:</b>	260°C for 5 seconds maximum
<b>Operating Temperature:</b>	-55°C to +85°C
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. Minimum
<b>Durability:</b>	750 Mating and unmating cycles

## Ordering Information

RJE74 - 1 A A - X X 1 X

#### Shielding Options

- 0 - No Shield
- 1 - Full Shield

#### Modifier

- 0 - Standard product
- 1 - With RMK4 keying

#### Contact Plating

- 1 - 6 µ" gold plating
- 2 - 15 µ" gold plating
- 3 - 30 µ" gold plating
- 4 - 50 µ" gold plating

# RJE74 SERIES

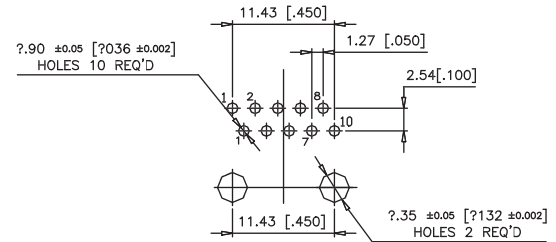
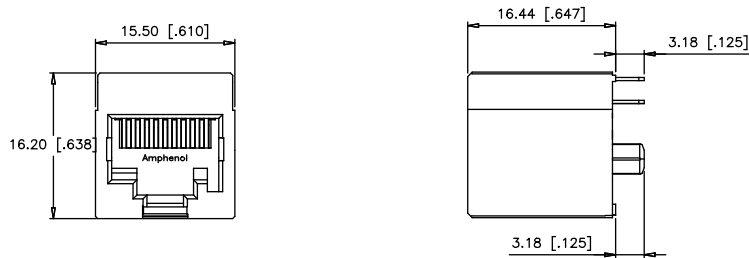
SINGLE PORT

## Single Port

### Non-Shielded

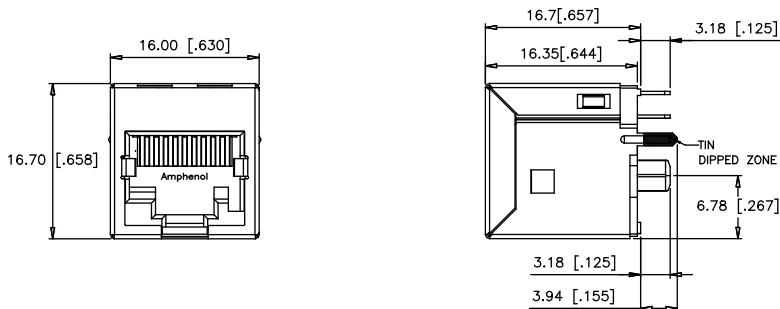
RJE74-1AA-0411

### PCB Layout

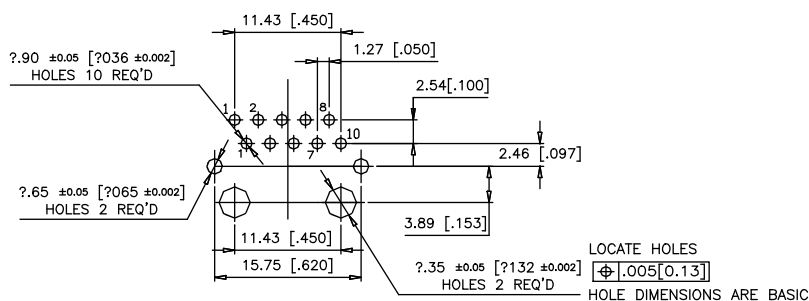


### Shielded

RJE74-1AA-1411



### PCB Layout



## 2, 4, and 8 Ports with LED and Shield Options

The RJSAE is a RJ45 stackable connector that reduces component and labour costs by incorporating LED's into the connector. It's stackable feature enables more ports with the same board space. With superior EMI performance, the option of configuring your connector with a ferrite filter is available to further reduce crosstalk in noisy applications. Amphenol offers a variety of other options such as shielded and unshielded, and variety of LED combinations and port configurations.



## Specifications

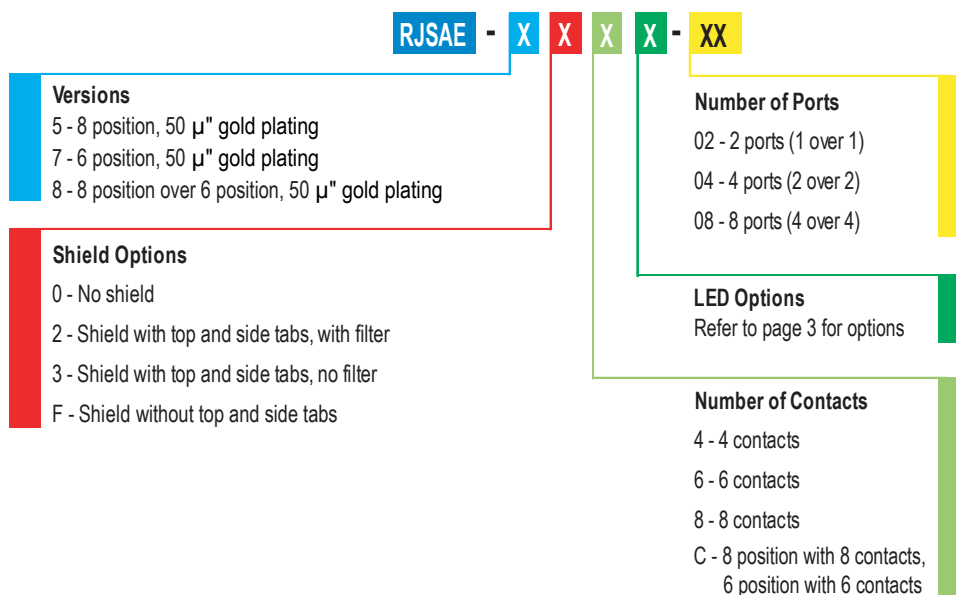
### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. minimum
<b>Durability:</b>	750 mating and unmating cycles
<b>Recommended Soldering Temperature:</b>	Wave soldering peaked at 260°C for 5 seconds maximum
<b>Operating Temperature:</b>	-55°C to + 85°C

### Electrical

<b>Contact Resistance:</b>	20 milliohms maximum
<b>Insulation Resistance:</b>	500 megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.5 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute
<b>LED Forward DC Current:</b>	20mA typical
<b>LED Forward Voltage:</b>	1.9 Volts maximum @ 2mA (for single colours) 2.6 Volts maximum @ 20mA (for Bi-colours)
<b>LED Reverse Voltage:</b>	5 Volts minimum
<b>LED Light Intensity:</b>	0.4 to 1.5mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours)
<b>LED Wave Length:</b>	Yellow: 587 ± 7 nm measured @ 20mA Green: 565 ± 6 nm measured @ 20mA Red: 625 ± 5 nm measured @ 20mA

## Ordering Information



# RJSAE SERIES

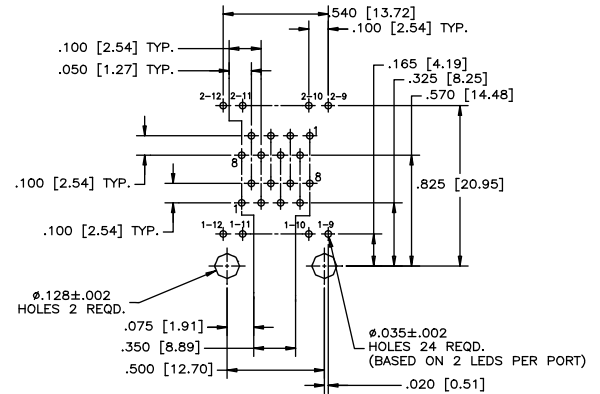
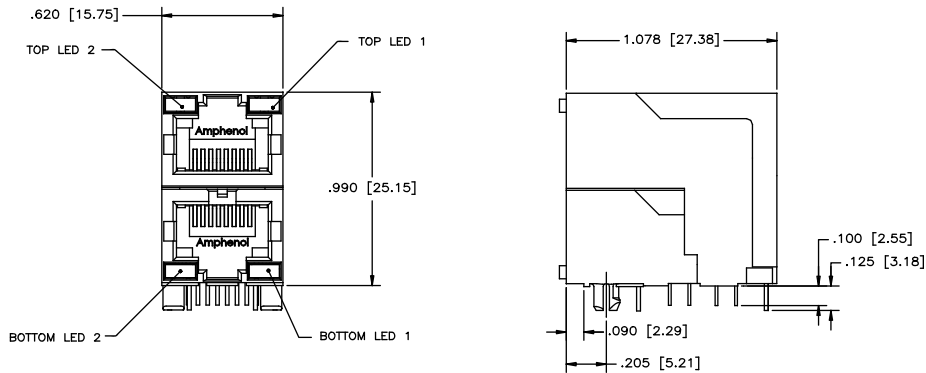
2, 4, AND 8 PORTS WITH LED AND SHIELD OPTIONS

## Single Port

RJSAE-5081-02

### Non-Shielded

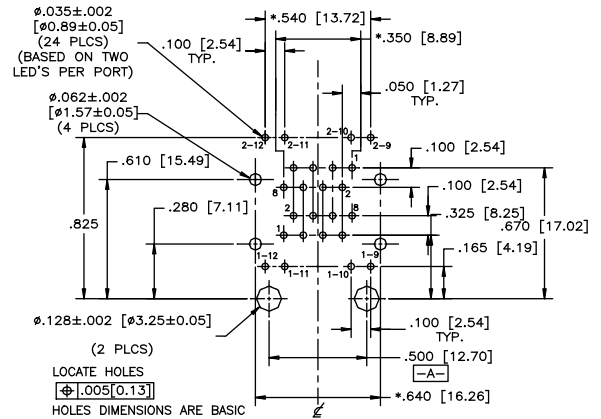
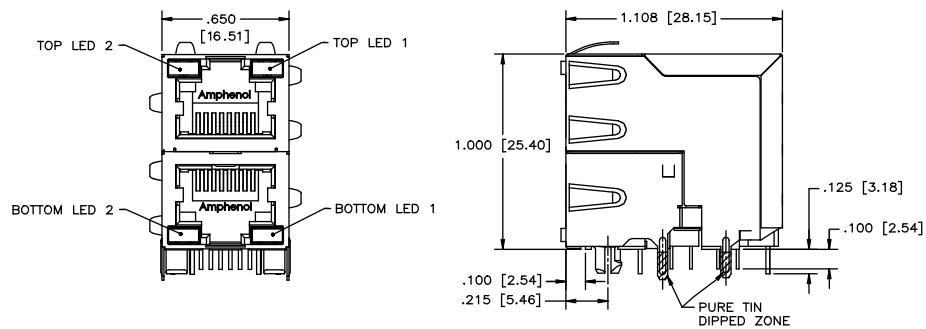
### PCB Layout



RJSAE-5381-02

### Shielded

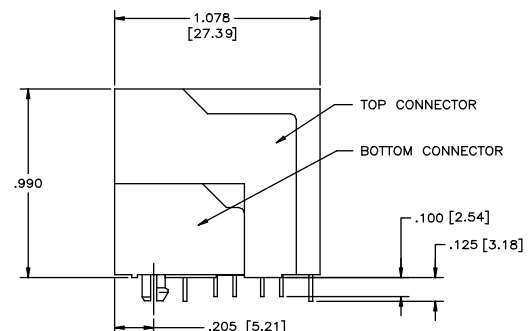
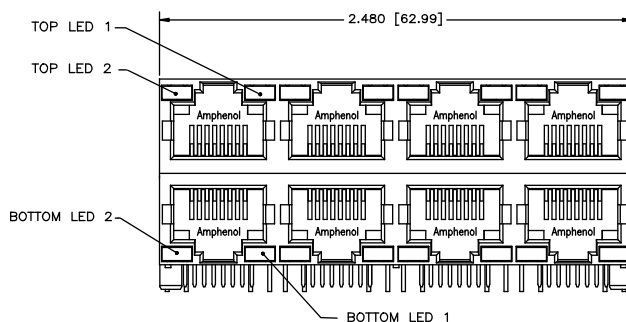
### PCB Layout



## Multi Port

RJSAE-5081-08

### Non-Shielded





# RJSNE SERIES

4 OVER 4 PORTS WITH LED AND SHIELD OPTIONS

## 4 Over 4 Ports with LED and Shield Options

The RJSNE series is a stacked connector that offers LED option for link activity and network verification. It is available with or without shielding. The RJSNE series also includes an unique inner shield device to reduce the cross talk between Top and Bottom ports.



## Specification

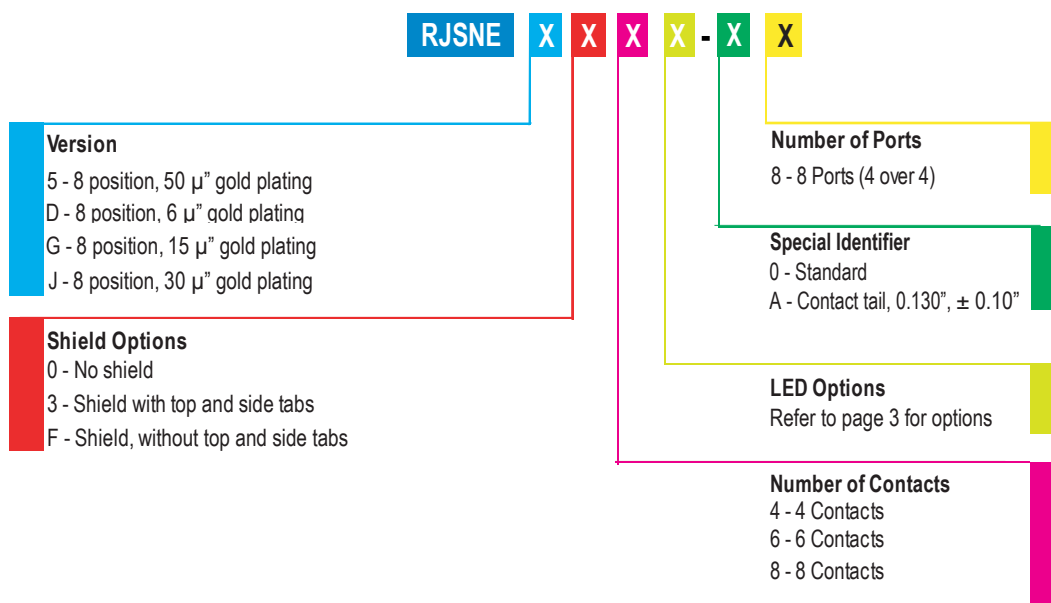
### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. minimum
<b>Durability:</b>	750 mating and unmating cycles
<b>Recommended Soldering Temperature:</b>	Wave soldering peaked at 260°C for 5 seconds maximum
<b>Operating Temperature:</b>	-55°C to + 85°C

### Electrical

<b>Contact Resistance:</b>	20 milliohms maximum
<b>Insulation Resistance:</b>	500 megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.5 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute
<b>LED Forward DC Current:</b>	20mA typical
<b>LED Forward Voltage:</b>	1.9 Volts maximum @ 2mA (for single colours) 2.6 Volts maximum @ 20mA (for Bi-colours)
<b>LED Reverse Voltage:</b>	5 Volts minimum
<b>LED Light Intensity:</b>	0.4 to 1.5mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours)
<b>LED Wave Length:</b>	Yellow: 587 ± 7 nm measured @ 20mA Green: 565 ± 6 nm measured @ 20mA Red: 625 ± 5 nm measured @ 20mA

## Ordering Information



**RJSNE-5381-A8**

CONNECTOR OUTLINE

TOP LED ROW  
PLEASE SEE NOT 5

0.050 [1.27] TYP.

0.100 [2.54] TYP.

0.100 [2.54] TYP.

0.062±.002 [Ø1.57±.05]  
4 HOLES REQD.

0.128±.002 [Ø3.25±.05]  
2 HOLES REQD.

LOCATE HOLES  
[Ø.005[0.13]]

HOLES DIMENSIONS ARE BASIC

0.620 [15.75] TYP.

0.350 [8.89] TYP.

0.540 [13.72] TYP.

0.100 [2.54] TYP.

0.825 [20.95] TYP.

0.610 [15.49] TYP.

0.570 [14.48] TYP.

0.325 [8.25] TYP.

0.280 [7.11] TYP.

0.165 [4.19] TYP.

0.215 [5.46] TYP.

0.118 [3.00] MIN.

0.620 [15.75] TYP.

0.075 [1.91] TYP.

0.070 [1.78] TYP.

0.114 [2.91] TYP.

0.020 [0.51] TYP.

2.360 [59.94] TYP.

2.500 [63.50] TYP.

2.589 [65.75] MIN.

0.035±.002 [Ø0.89±.05]  
96 HOLES REQD.  
(BASED ON 2 LEDS PER PORT)  
BOTTOM LED ROW  
PLEASE SEE NOT 5

KEEP-OUT ZONE IN HATCHED AREA  
NO TRACES OR INK MARKING ALLOWED

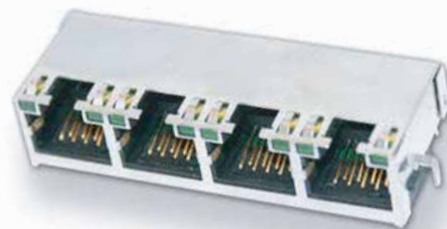
Amphenol® Canada Telephone: (416) 754-5656 Fax: (416) 754-8668 Email: [sales@amphenolcanada.com](mailto:sales@amphenolcanada.com)  
All specifications are subject to change without notice.

# RJE72 SERIES

RIGHT ANGLED, RECESSED, LOW PROFILE

## Right Angled, Recessed, Low Profile

The RJE72 series of modular jacks meet category CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LED's for Link Activity and Network Speed verification



## Specifications

### Material

<b>Housing:</b>	High temperature thermoplastic. Complies with UL 94V-0. Black colour
<b>Contacts:</b>	Phosphor bronze hard temper with gold thickness options (6µ", 15µ", 30µ", 50µ") over 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin on solder tails
<b>Shield:</b>	Stainless steel with tin dipped tails
<b>LED:</b>	Steel with tin plating on LED tails. Epoxy lens

### Mechanical

<b>Mating Connector</b>	
<b>Insertion Force:</b>	5.0 lbs. Maximum
<b>Mating Connector Pull</b>	
<b>Retention Force:</b>	20 lbs. Minimum
<b>Durability:</b>	750 Mating and unmating cycles

### Recommended Soldering Temperature:

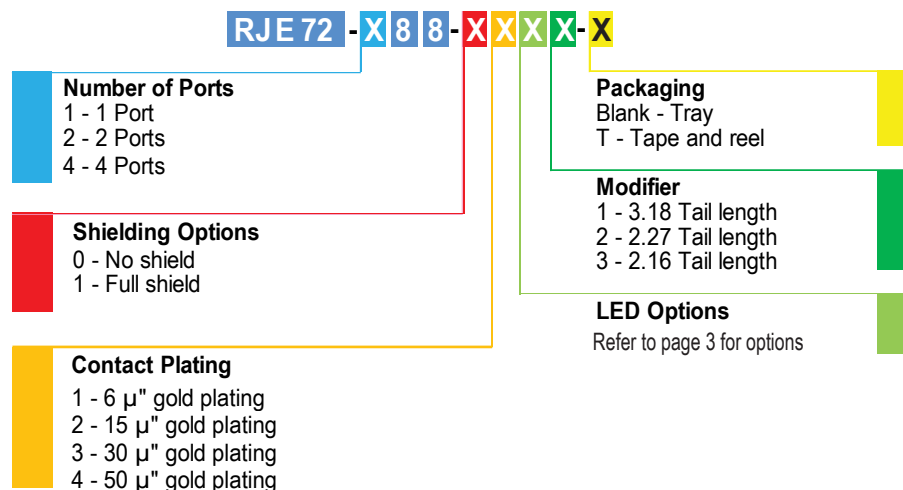
- a) Wave soldering peaked at 260°C for 5 seconds maximum, or
  - b) IR reflow peaked at 260°C for 5 to 8 seconds
- 55°C to + 85°C

### Operating Temperature:

### Electrical

<b>Contact Resistance:</b>	20 Milliohms maximum
<b>Insulation Resistance:</b>	500 Megohms minimum at 500V DC for 2 minutes maximum
<b>Current Rating:</b>	1.25 Amps
<b>Voltage Rating:</b>	125 Volts AC
<b>DWV:</b>	1000 VAC, 60 Hz. 1 minute
<b>LED Forward DC Current:</b>	20mA typical
<b>LED Forward Voltage:</b>	1.9 Volts maximum @ 2mA (for single colours) 2.6 Volts maximum @ 20mA (for Bi-colours)
<b>LED Reverse Voltage:</b>	5 Volts minimum
<b>LED Light Intensity:</b>	0.4 to 1.5 mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours)
<b>LED Wave Length:</b>	Yellow: 587 ± 7 nm measured @ 20mA Green: 565 ± 6 nm measured @ 20mA Red: 625 ± 5 nm measured @ 20mA

## Ordering Information

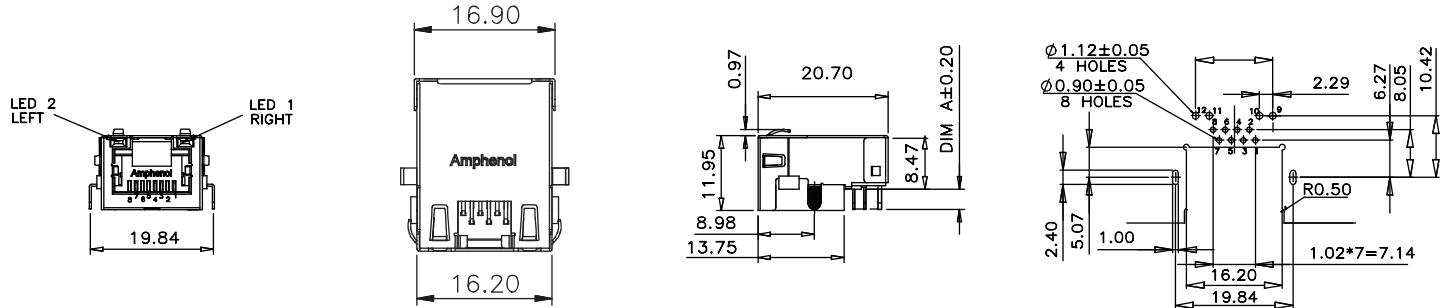


## Single Port

RJE72-188-1411

Shielded

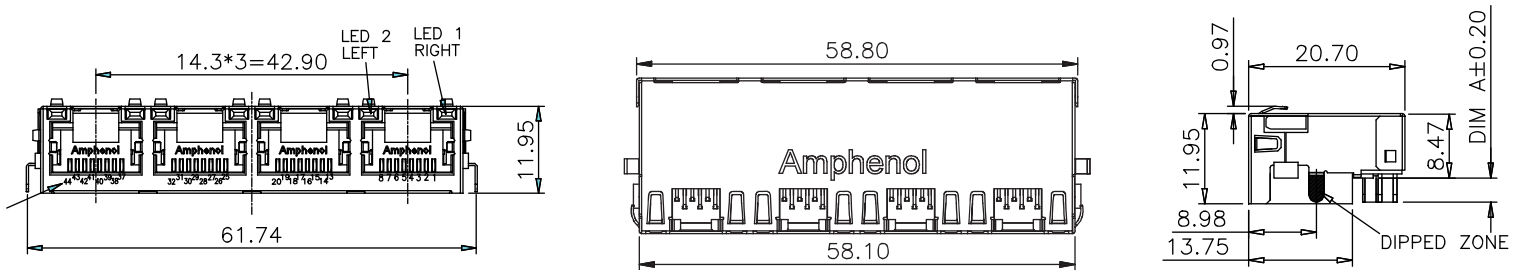
PCB Layout



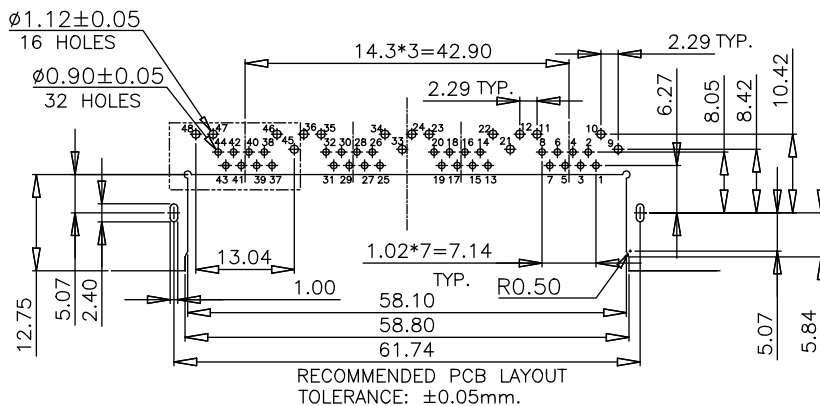
## Multi Port

RJE72-488-1411

Shielded



PCB Layout



# RJE17 SERIES

RJ45 COUPLER

## RJ45 Coupler

The RJE17 coupler provides connections through barriers such as equipment covers and panels. They are locked into place with a locking tab for secure mounting.

The added shielding provides optimal EMI protection.



## Specification

### Materials

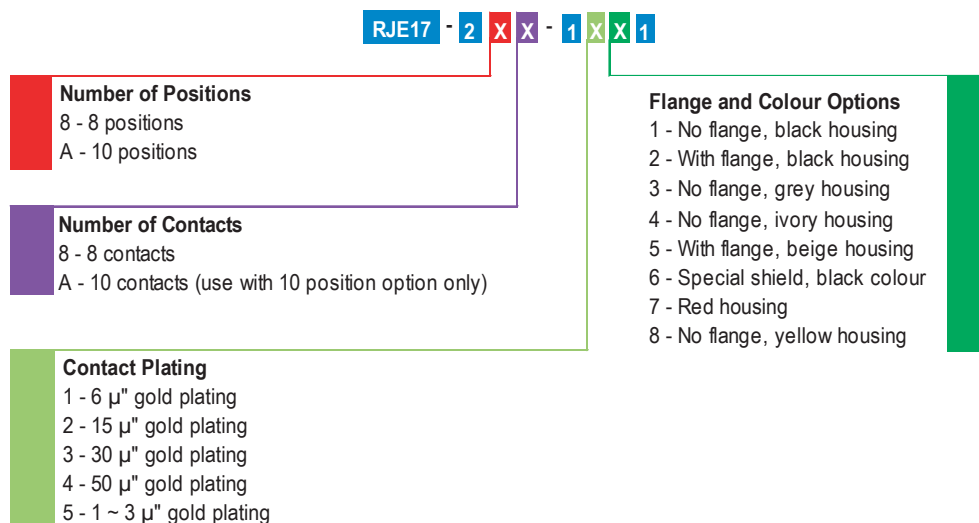
**Housing:** High Temperature thermoplastic flammability rating UL 94V-0, color: black

**Contacts:** Phosphor bronze

**Plating:** 6  $\mu$ " [15 microns] minimum gold on mating surfaces, 50  $\mu$ " [1.27 microns] minimum nickel underplate, 100  $\mu$ " [2.54 microns] minimum matte tin or gold flush on contact tails

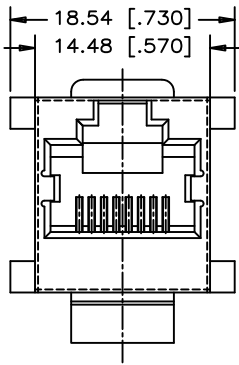
**Shield:** Stainless steel

## Ordering Information

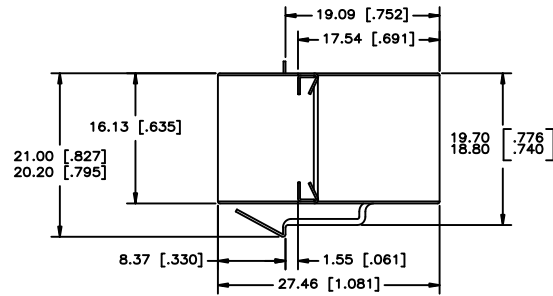


## Single Port

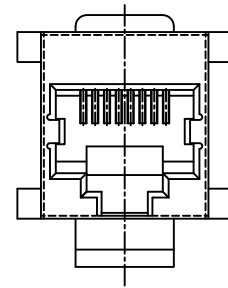
RJE17-288-1121



FRONT VIEW



SIDE VIEW



REAR VIEW

## Notes

The Amphenol logo consists of the word "Amphenol" in a bold, blue, sans-serif font, followed by a registered trademark symbol (®).

**Amphenol®**

*Now you're connected!*

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All specifications are subject to change without notice.