

**Filtered Modular Jacks with Enhanced Performance**

# LC Series



UL Recognized  
CSA Certified



## LC Series

- Chip capacitors provide enhanced filtering performance on each line
- Available with block or sleeve inductance
- Available with board grounded shield or spring fingered panel ground interface

## Performance Data

### Typical Insertion Loss

Line to ground (stop band) in 50 Ohm circuit

Model	Frequency – MHz						
	30	60	80	100	200	500	1000
S – Ferrite Sleeves	28	40	51	40	27	24	22
B – Ferrite Blocks	30	41	59	40	31	28	24

Line to line (pass band) in 50 Ohm circuit

Model	Frequency – MHz						
	2	5	10	30	50	70	100
S – Ferrite Sleeves	-	4	8	18	24	30	40
B – Ferrite Blocks	1	8	11	21	28	33	37

Model dimensions and PC board layout on pages 255-259

## Specifications

### Contacts:

Material:	Phosphor Bronze
Plating:	50 microinches gold
Barrier underplating:	100 microinches nickel
Resistance:	
Initial:	20 mΩ max.
After 500 mating cycles:	30 mΩ max.

### Capacitors:

Type:	Monolithic ceramic chip
Standard Value:	820 pF
Standard Tolerance:	± 20%

### Ferrites:

Type:	High resistivity, nickel zinc ceramic
Sleeves:	Single-aperture cylinders
Block:	Multi-aperture rectangular prism

### Shield Material:

Tin-plated copper alloy

### Housing Material:

Glass-filled polyester (UL94V-0)

### Dielectric Withstanding Voltage:

Line to Line and Line to Ground:	1000 VAC for 60 seconds
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### Printed Circuit Board Retention:

Before soldering:	1 lb. minimum
After soldering:	20 lb. minimum

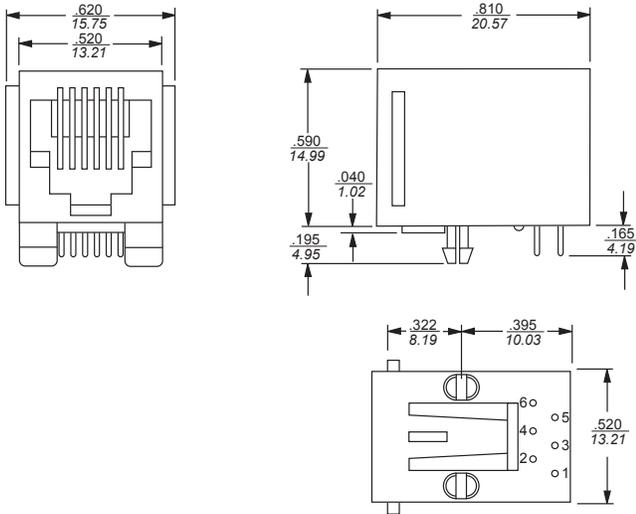
## Available Part Numbers

RJ11-2LC1-S	RJ11-6LC2-S
RJ11-2LC1-B	RJ11-6LC2-B
RJ11-2LC2-S	RJ45-6LC1-S
RJ11-2LC2-B	RJ45-6LC1-B
RJ11-4LC1-S	RJ45-6LC2-S
RJ11-4LC1-B	RJ45-6LC2-B
RJ11-4LC2-S	RJ45-8LC1-S
RJ11-4LC2-B	RJ45-8LC1-B
RJ11-6LC1-S	RJ45-8LC2-S
RJ11-6LC1-B	RJ45-8LC2-B

**Model Dimensions**

**L, LC, LCT and X Series RJ Jack Dimensions**

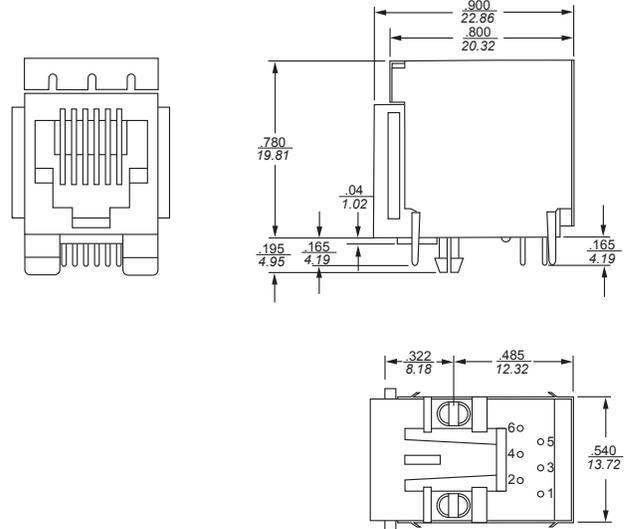
**RJ11 - No Shield**



**Part No.**

RJ11-2L-S	RJ11-2L-B	RJ11-2X
RJ11-4L-S	RJ11-4L-S	RJ11-4X
RJ11-6L-S	RJ11-6L-S	RJ11-6X

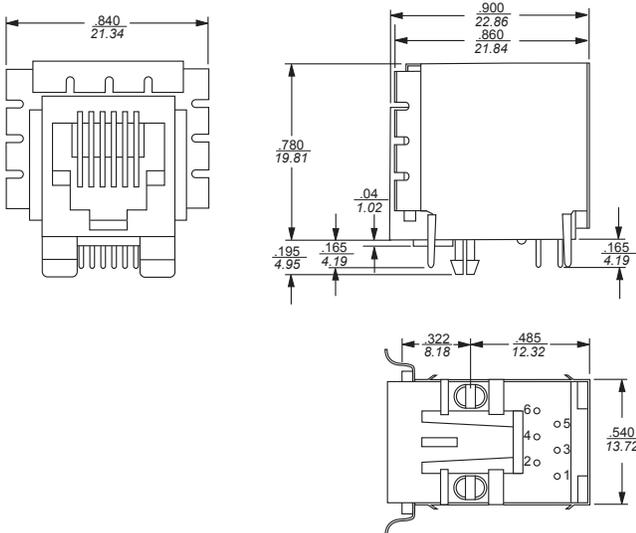
**RJ11 - Style 2 Shield**



**Part No.**

RJ11-2LC2-S	RJ11-2LC2-B	RJ11-4L2-S	RJ11-6L2-B
RJ11-4LC2-S	RJ11-4LC2-B	RJ11-6L2-S	RJ11-6LCT2-S
RJ11-6LC2-S	RJ11-6LC2-B	RJ11-4L2-B	RJ11-6LCT2-B

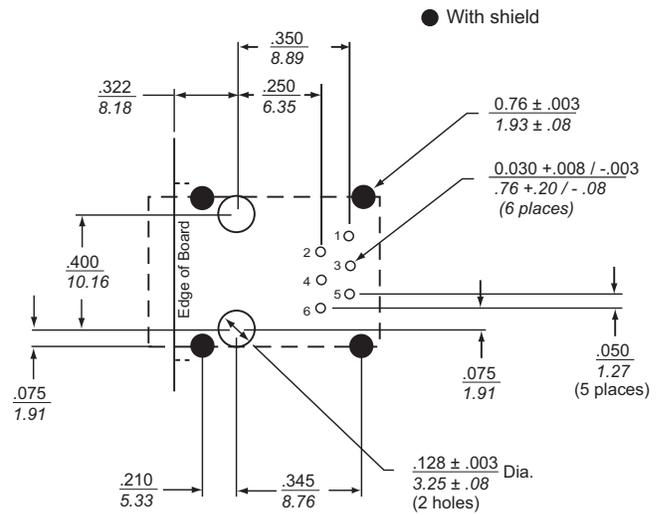
**RJ11 - Style 1 Shield**



**Part No.**

RJ11-2LC1-S	RJ11-2LC1-B	RJ11-4L1-S	RJ11-6L1-B
RJ11-4LC1-S	RJ11-4LC1-B	RJ11-6L1-S	RJ11-6LCT1-S
RJ11-6LC1-S	RJ11-6LC1-B	RJ11-4L1-B	RJ11-6LCT1-B

**RJ11 - PC Board Layout**



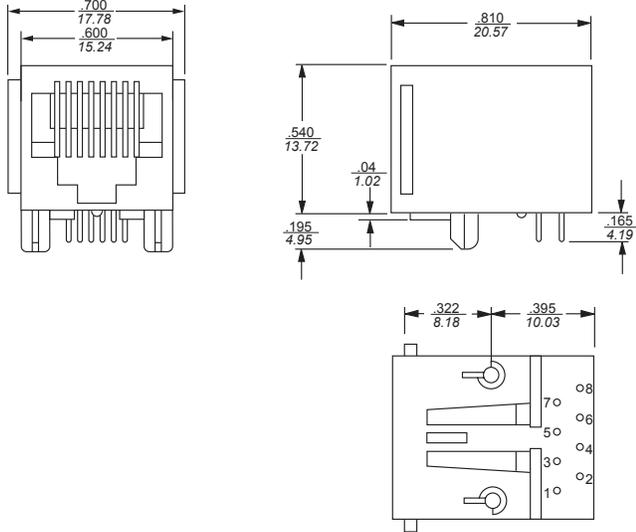
For all RJ11 L, LC, LCT and X Series Models  
Shown from Component Side

All tolerances ± 0.010 [0.25] unless otherwise noted

**Model Dimensions** *(continued)*

**L, LC, LCT and X Series RJ Jack Dimensions** *(continued)*

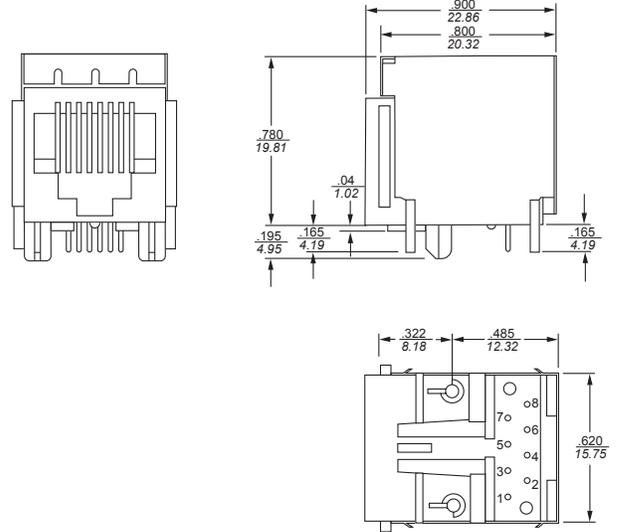
**RJ45 - No Shield**



Part No.

RJ45-6L-S	RJ45-8L-B
RJ45-8L-S	RJ45-6X
RJ45-6L-B	RJ45-8X

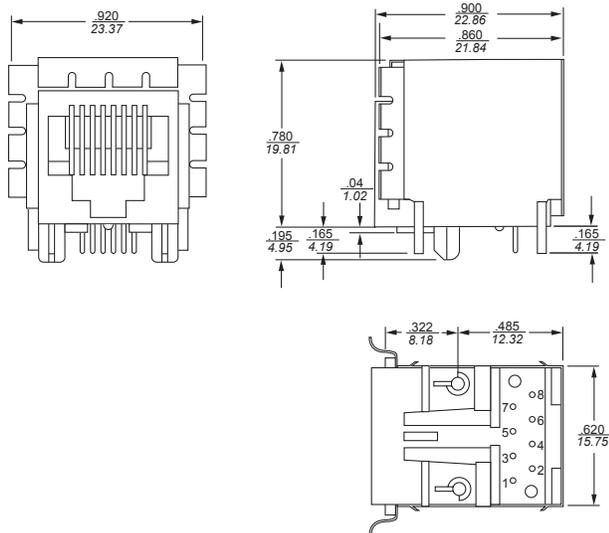
**RJ45 - Style 2 Shield**



Part No.

RJ45-6LC2-S	RJ45-8LC2-S	RJ45-6LC2-B	RJ45-8LC2-B
RJ45-6L2-S	RJ45-8L2-S	RJ45-6L2-B	RJ45-8L2-B
RJ45-8LCT2-S	RJ45-8LCT2-B		

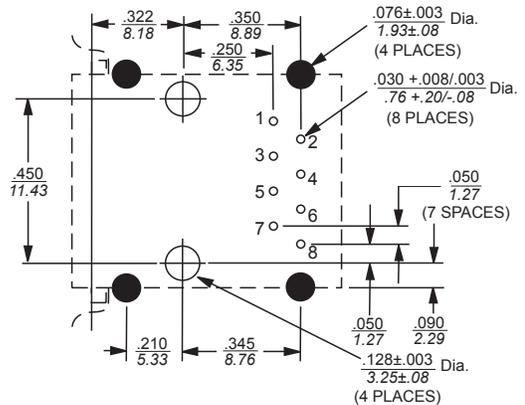
**RJ45 - Style 1 Shield**



Part No.

RJ45-6LC1-S	RJ45-8LC1-S	RJ45-6LC1-B
RJ45-6L1-S	RJ45-8L1-S	RJ45-6L1-B
RJ45-8LCT1-S	RJ45-8LCT1-B	RJ45-8LCT1-B
		RJ45-8L1-B

**RJ45 - PC Board Layout**



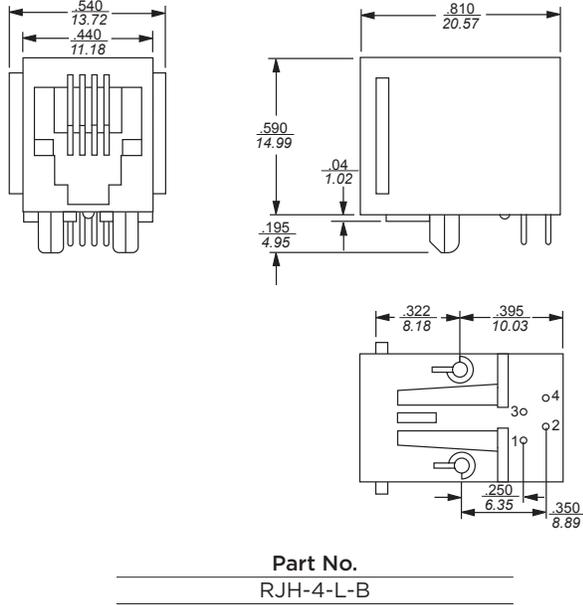
For all RJ45 L, LC, LCT and X Series Models  
Shown from Component Side

All tolerances  $\pm 0.010$  [0.25] unless otherwise noted

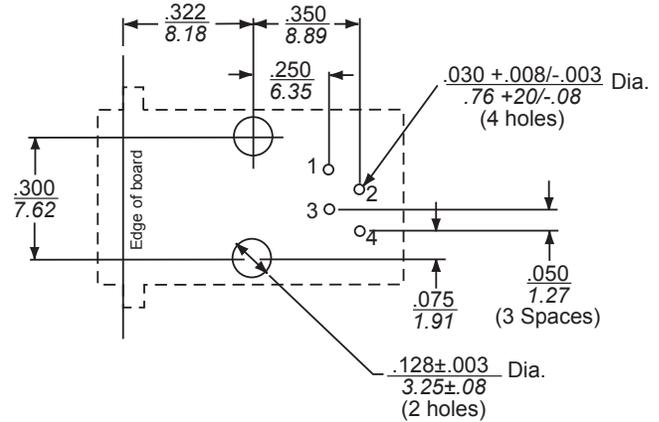
**Model Dimensions** *(continued)*

**L, LC, LCT and X Series RJ Jack Dimensions** *(continued)*

**RJH - No Shield**

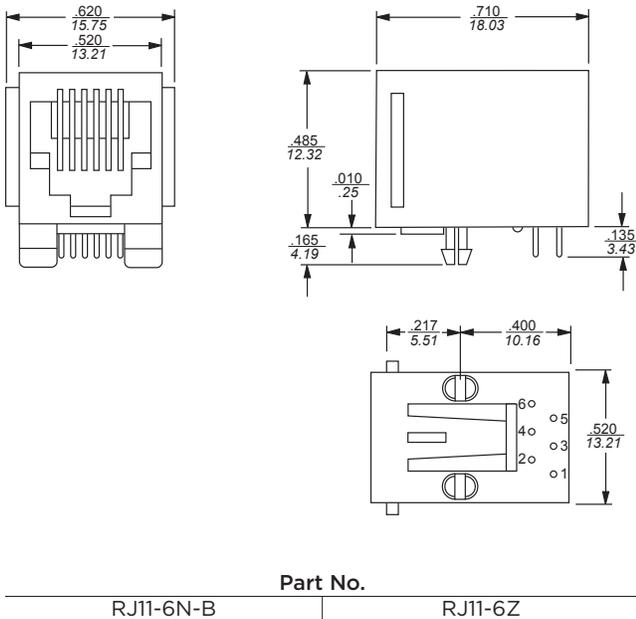


**RJH - PC Board Layout**

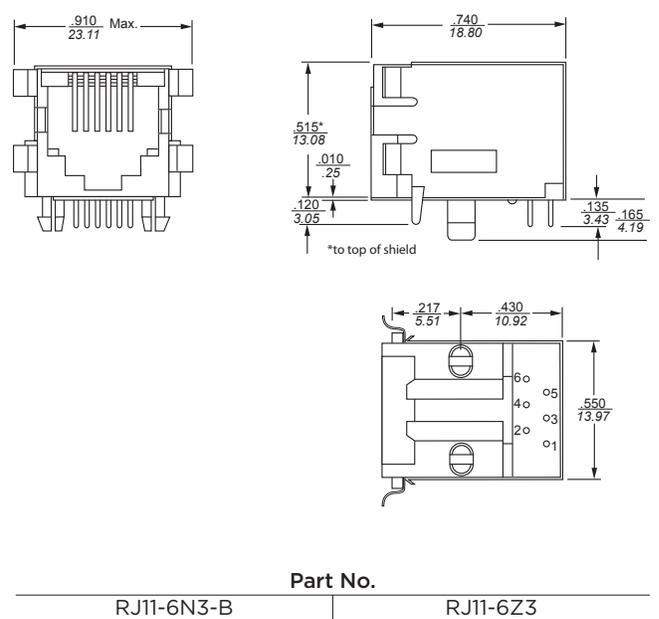


**N and Z Series RJ Jack Dimensions**

**RJ11 - Low Profile, No Shield**



**RJ11 Low Profile, Style 3 Shield**



All tolerances  $\pm 0.010$  [0.25] unless otherwise noted