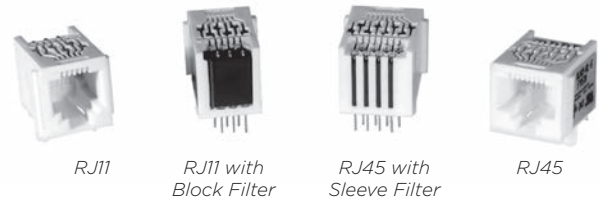


## Inductive Filtering Modular RJ Jacks

# L Series



UL Recognized  
CSA Certified



## L Series

- Inductive filtering in standard RJ11, RJ45, or handset jacks.
- Available with standard ferrite sleeve inductors or higher performance ferrite blocks
- Available unshielded or shielded with board grounded shield or spring fingered panel ground interface

## Available Part Numbers

| Inductor Filter            |            |
|----------------------------|------------|
| RJH-4L-B                   | RJ45-6L-S  |
| RJ11-2L-S                  | RJ45-6L-B  |
| RJ11-2L-B                  | RJ45-8L-S  |
| RJ11-4L-S                  | RJ45-8L-B  |
| RJ11-4L-B                  |            |
| RJ11-6L-S                  |            |
| RJ11-6L-B                  |            |
| Inductor Filter and Shield |            |
| RJ11-2L2-B                 | RJ45-6L1-S |
| RJ11-4L1-S                 | RJ45-6L1-B |
| RJ11-4L1-B                 | RJ45-6L2-S |
| RJ11-4L2-S                 | RJ45-6L2-B |
| RJ11-4L2-B                 | RJ45-8L1-S |
| RJ11-6L1-S                 | RJ45-8L1-B |
| RJ11-6L1-B                 | RJ45-8L2-S |
| RJ11-6L2-S                 | RJ45-8L2-B |
| RJ11-6L2-B                 |            |

Shield 2



Shield 1



## 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.             |

### 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)

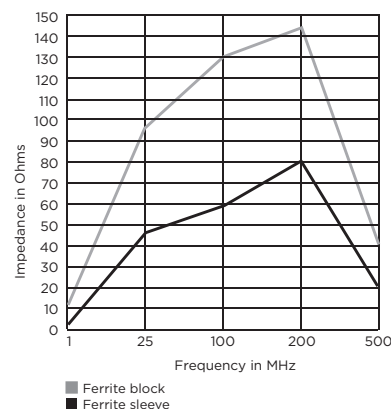
### Dielectric Withstanding Voltage:

|                                  |                         |
|----------------------------------|-------------------------|
| Line to Line and Line to Ground: | 1000 VAC for 60 seconds |
|----------------------------------|-------------------------|

### Printed Circuit Board Retention:

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

## Typical Impedance in Ohms



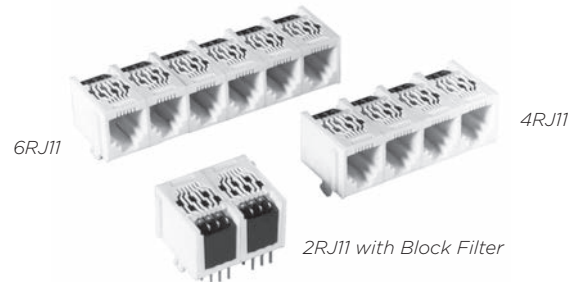
Model dimensions and PC board layout on pages 255-259

## Inductive Filtering Ganged Modular RJ Jacks

# L – Ganged Series



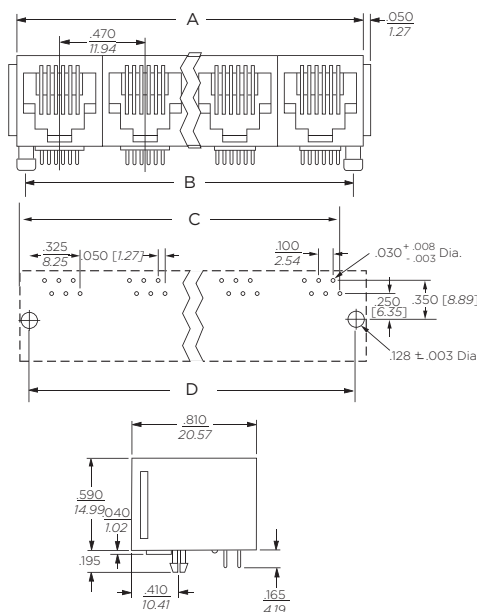
UL Recognized  
CSA Certified



## L – Ganged Series

- Ganged version of our L Series filtered jacks
- Available in RJ11 models with block inductors
- Available in gangs of 2, 4 or 6
- Retrofits existing unfiltered ganged jack footprints

## Dimensions and PC Board Layout



| Ports | A             | B             | C              | D             |
|-------|---------------|---------------|----------------|---------------|
| 2     | 0.99<br>25.15 | 0.87<br>22.1  | 0.795<br>20.19 | .87<br>22.1   |
| 4     | 1.93<br>49.02 | 1.81<br>45.97 | 1.735<br>44.07 | 1.81<br>25.97 |
| 6     | 2.87<br>72.9  | 2.75<br>69.85 | 2.675<br>67.95 | 2.75<br>69.85 |

## 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.

**Ferrites:**  
Type: High resistivity, nickel zinc ceramic  
Block: Multi-aperture rectangular prism

**Housing Material:** Glass-filled polyester (UL94V-0)

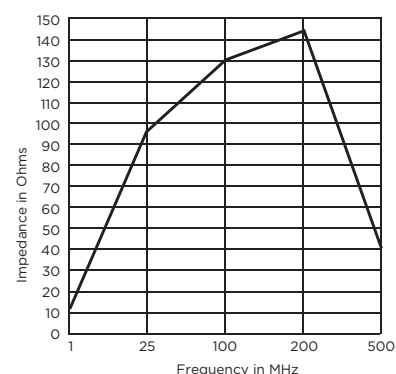
**Dielectric Withstanding Voltage:**  
Line to Line and Line to Ground: 1000 VAC for 60 seconds

**Printed Circuit Board Retention:**  
Before soldering: 1 lb. minimum  
After soldering: 20 lb. minimum

## Available Part Numbers

|            |            |
|------------|------------|
| 2RJ11-6L-B | 4RJ11-6L-B |
| 6RJ11-6L-B |            |

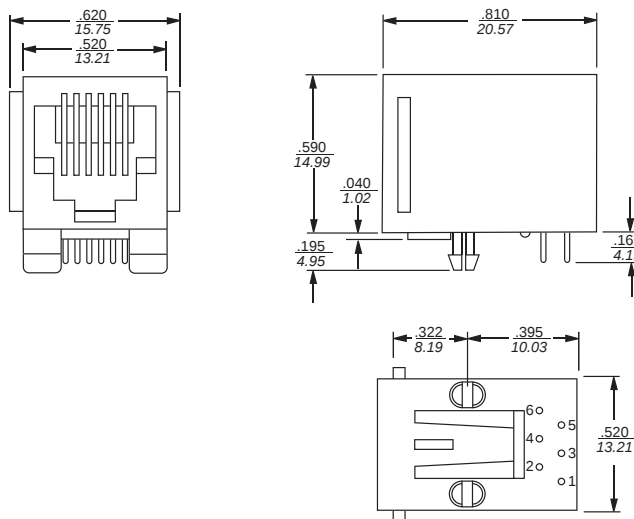
## Typical Impedance in Ohms



## Model Dimensions

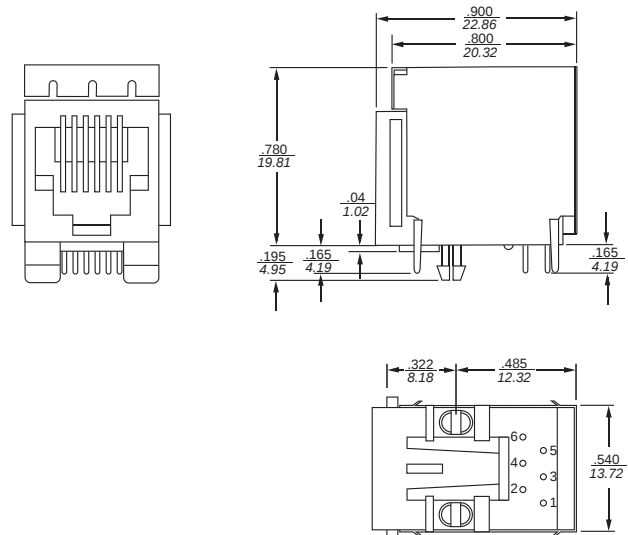
### L, LC, LCT and X Series RJ Jack Dimensions

#### RJ11 - No Shield



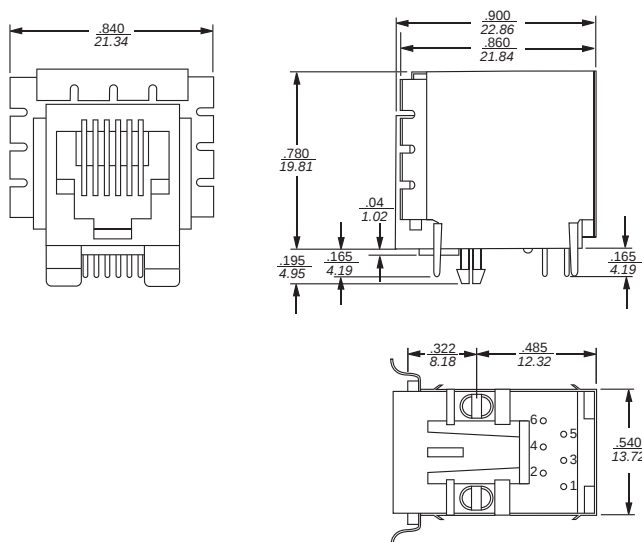
| Part No.  |           |         |
|-----------|-----------|---------|
| RJ11-2L-S | RJ11-2L-B | RJ11-2X |
| RJ11-4L-S | RJ11-4L-B | RJ11-4X |
| RJ11-6L-S | RJ11-6L-B | RJ11-6X |

#### RJ11 - Style 2 Shield



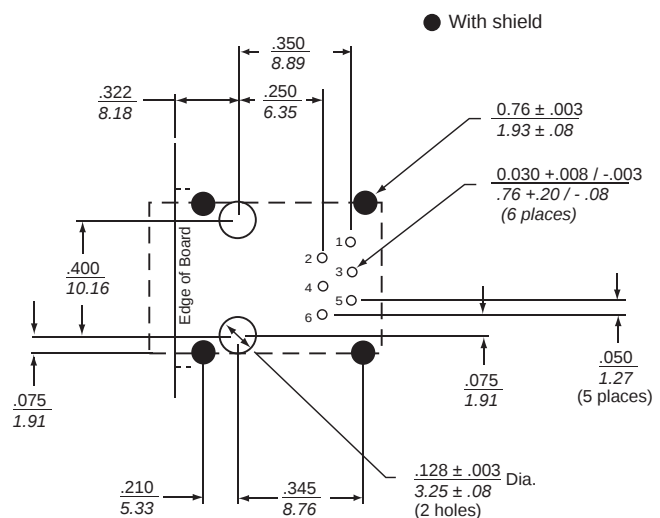
| Part No.    |             |            |              |
|-------------|-------------|------------|--------------|
| RJ11-2LC2-S | RJ11-2LC2-B | RJ11-4L2-S | RJ11-6L2-B   |
| RJ11-4LC2-S | RJ11-4LC2-B | RJ11-6L2-S | RJ11-6LCT2-S |
| RJ11-6LC2-S | RJ11-6LC2-B | RJ11-4L2-B | RJ11-6LCT2-B |

#### 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



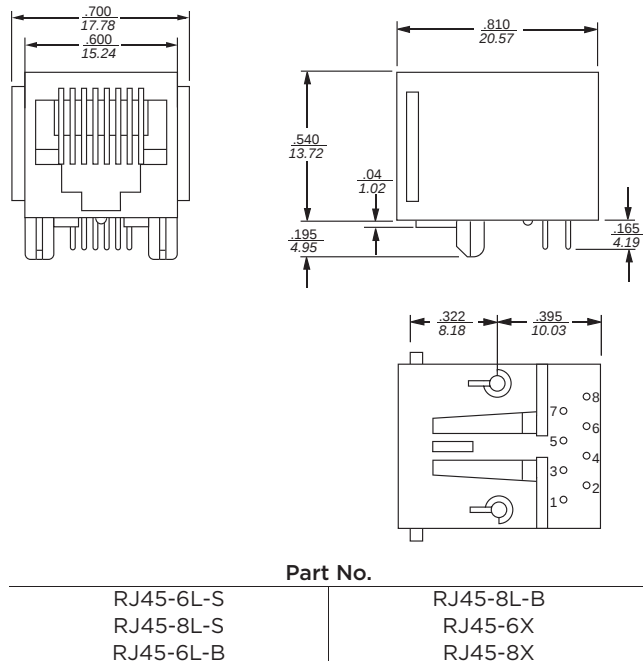
For all RJ11 L, LC, LCT and X Series Models  
Shown from Component Side

All tolerances ± 0.010 [0.25] unless otherwise noted

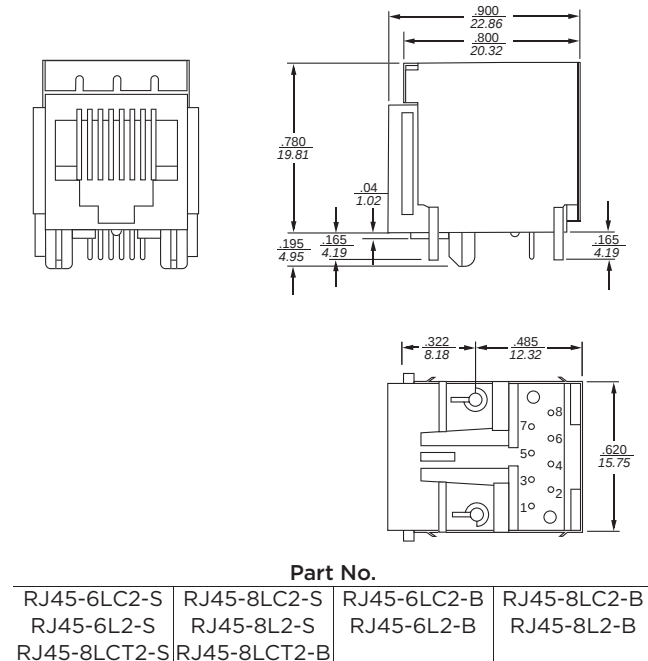
**Model Dimensions** *(continued)*

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

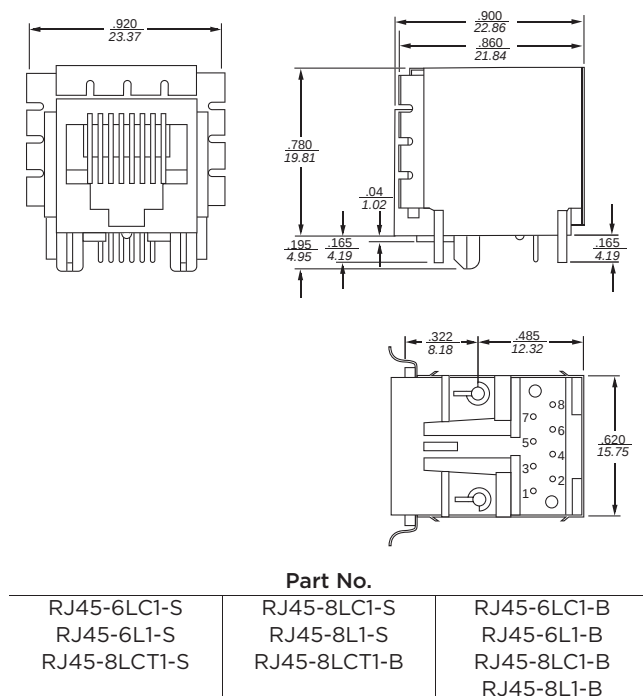
**RJ45 - No Shield**



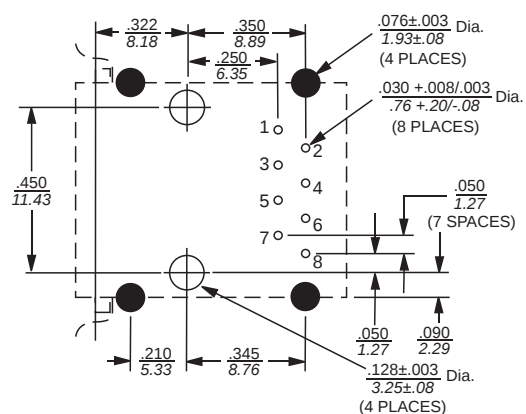
**RJ45 - Style 2 Shield**



**RJ45 - Style 1 Shield**



**RJ45 - PC Board Layout**



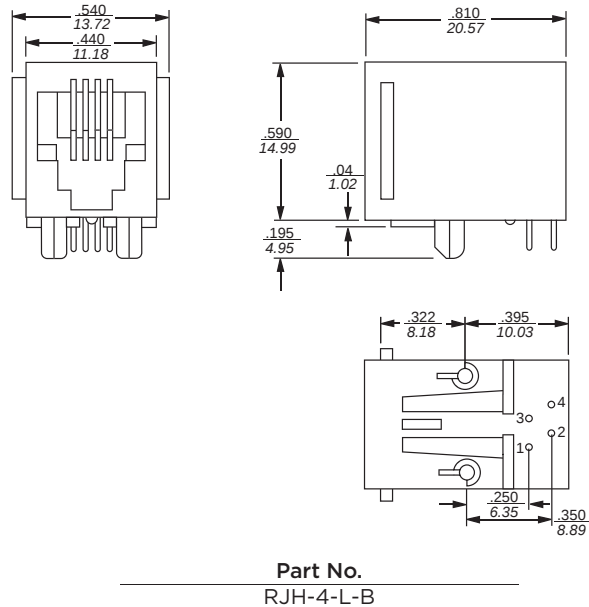
For all RJ45 L, LC, LCT and X Series Models  
Shown from Component Side

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

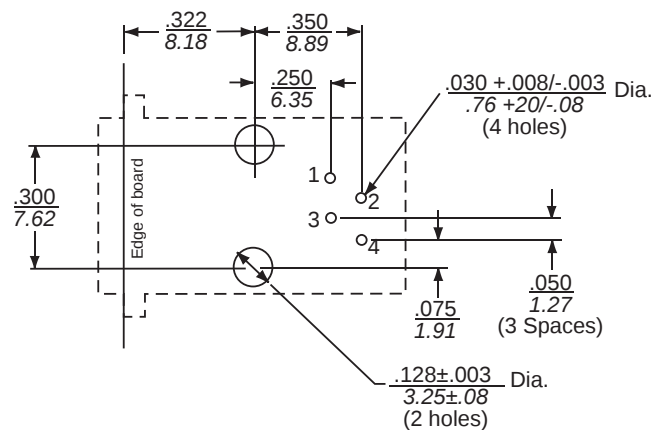
Model Dimensions (continued)

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

RJH - No Shield

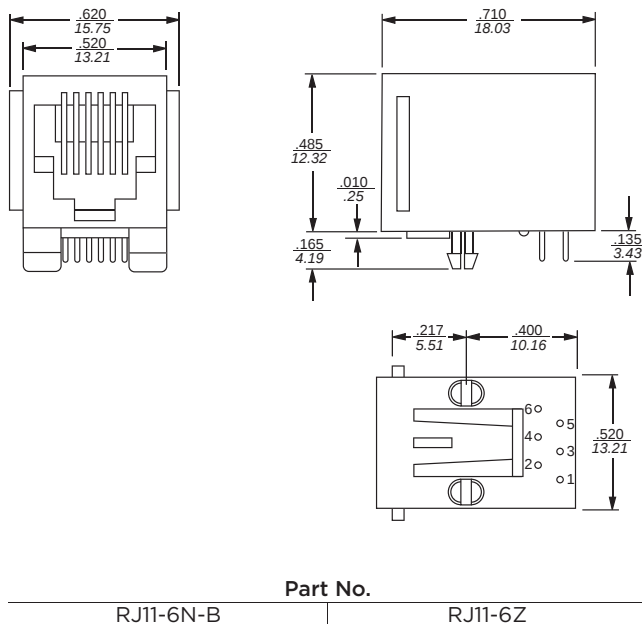


RJH - PC Board Layout

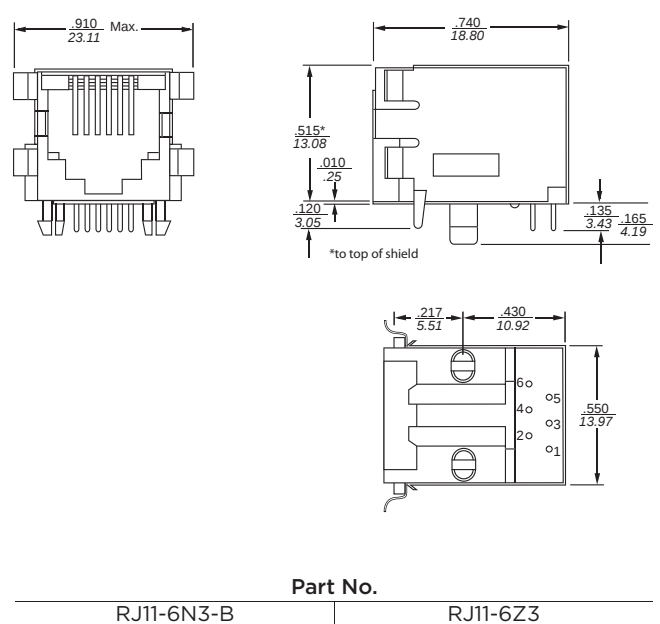


N and Z Series RJ Jack Dimensions

RJ11 - Low Profile, No Shield



RJ11 Low Profile, Style 3 Shield

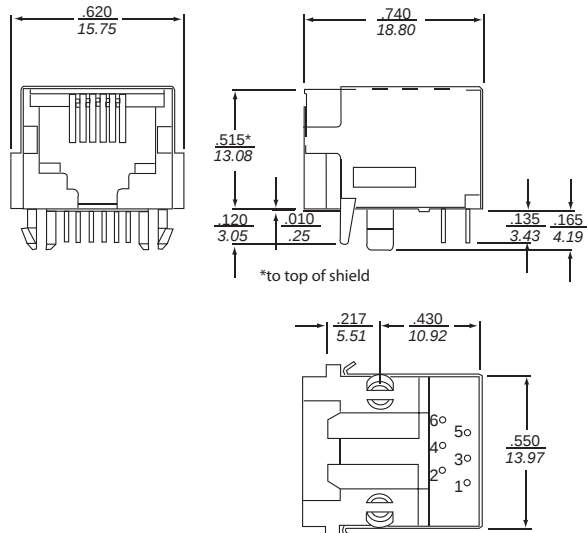


All tolerances  $\pm 0.010$  [0.25] unless otherwise noted

## Model Dimensions *(continued)*

### N and Z Series RJ Jack Dimensions *(continued)*

#### RJ11 Low Profile, Style 4 Shield

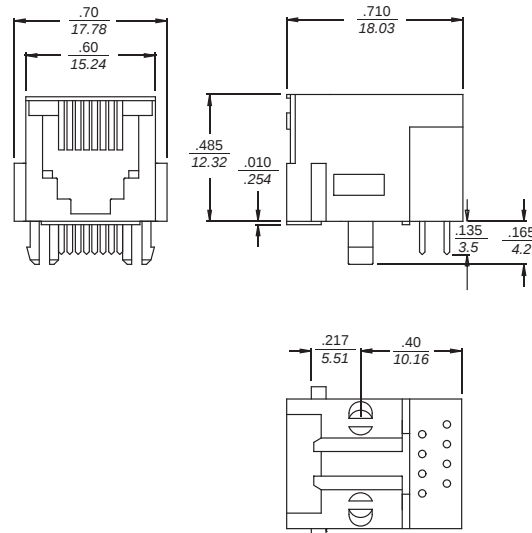


Part No.

RJ11-6N4-B

RJ11-6Z4

#### RJ45 - Low Profile, No Shield



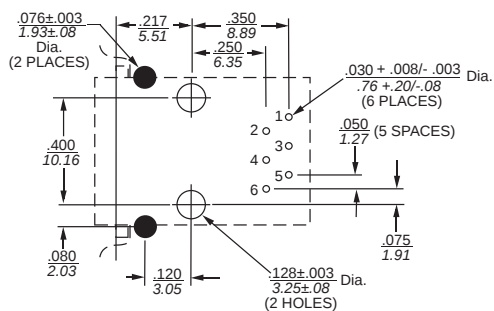
Part No.

RJ45-8N-B

RJ45-8N-S

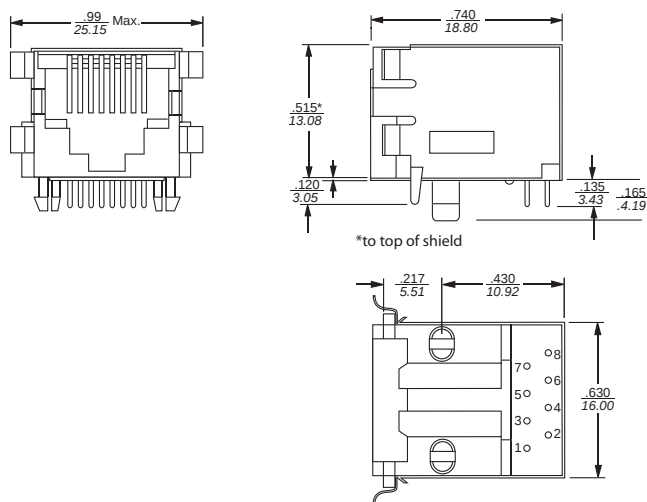
RJ45-8Z

#### RJ11 Low Profile, PC Board Layout



For all RJ11 N and Z Series Models  
Shown from Component Side

#### RJ45 - Low Profile, Style 3 Shield



Part No.

RJ45-8N3-B

RJ45-8N3-S

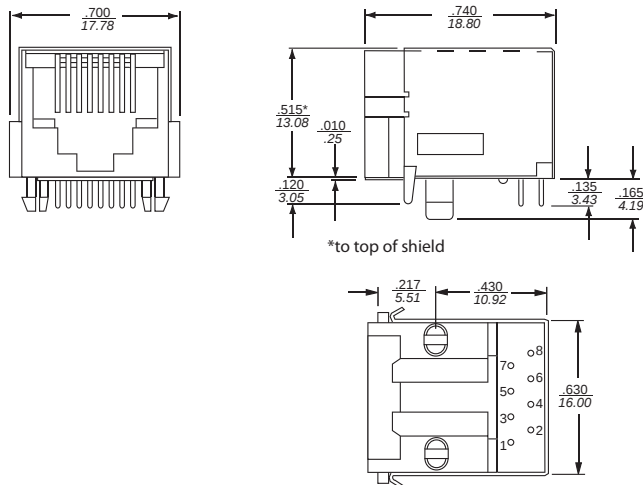
RJ45-8Z3

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

## Model Dimensions *(continued)*

### N and Z Series RJ Jack Dimensions *(continued)*

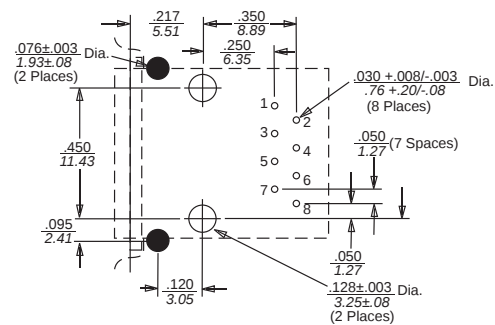
#### RJ45 Low Profile, Style 4 Shield



Part No.

|            |            |          |
|------------|------------|----------|
| RJ45-8N4-B | RJ45-8N4-S | RJ45-8Z4 |
|------------|------------|----------|

#### RJ45 Low Profile PC Board Layout



For all RJ45 N and Z Series Models  
Shown from Component Side

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