

Low Capacitance Modular RJ Jacks

LCT Series



UL Recognized CSA Certified

LCT Series

- Low capacitance model for improved performance.
- Particularly suited for ethernet applications
- 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

	Frequency – MHz						
Model	40	100	200	250	300	500	1000
S – Ferrite Sleeves	8	12	27	50	38	25	20
B – Ferrite Blocks	10	18	22	55	40	28	24

Line to line (pass band) in 50 Ohm circuit

	Frequency – MHz						
Model	2	5	10	30	50	70	100
S – Ferrite Sleeves	-	1.2	1.9	4	5	7	10
B – Ferrite Blocks	1	2	3	5	8	10	13

Model dimensions and PC board layout on pages 255-259





Shield 1

RJ11





Shield 2 RJ11

Shield 2 RJ45

Shield 1 RJ45

Specifications

opeenieation			
Contacts: Material: Plating: Barrier underpla Resistance: Initial: After 500	ting: mating cycl	50 mi 100 mic	osphor Bronze croinches gold roinches nickel 20 mΩ max. 30 mΩ max.
Capacitors: Type: Standard Value: Standard Tolera		Monolithi	c ceramic chip 82 pF ± 20%
Ferrites: Type: Sleeves: Block:	S	ingle-ape	el zinc ceramic rture cylinders tangular prism
Shield Material:		Tin-plate	ed copper alloy
Housing Material:	Glass-fill	ed polyes	ster (UL94V-0)
Dielectric Withsta Line to Line and			1000 VAC for 60 seconds
Printed Circuit Bo Before soldering After soldering:			1 lb. minimum 20 lb. minimum

Available Part Numbers

RJ11-6LCT1-S	RJ45-8LCT1-S
RJ11-6LCT1-B	RJ45-8LCT1-B
RJ11-6LCT2-S	RJ45-8LCT2-S
RJ11-6LCT2-B	RJ45-8LCT2-B



Model Dimensions

L, LC, LCT and X Series RJ Jack Dimensions

Part No.

RJ11-2L-B

RJ11-4L-B

RJ11-6L-B

.780 19.81

.195

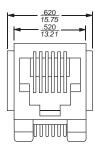
Part No.

RJ11-2LC1-B

RJ11-4LC1-B

RJ11-6LC1-B





RJ11-2L-S

RJ11-4L-S

RJ11-6L-S

.840

-000001

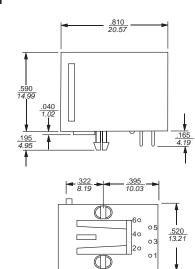
RJ11-2LC1-S

RJ11-4LC1-S

RJ11-6LC1-S

0 0

RJ11 - Style 1 Shield



RJ11-2X

RJ11-4X

RJ11-6X

<u>.900</u> 22.86 <u>.860</u> 21.84

11

(IT)

60 40

20 03

RJ11-6L1-B

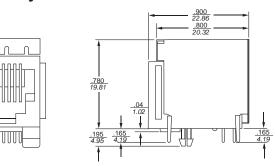
RJ11-6LCT1-S

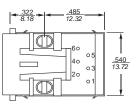
.540 13.72

8.18

RJ11 - Style 2 Shield

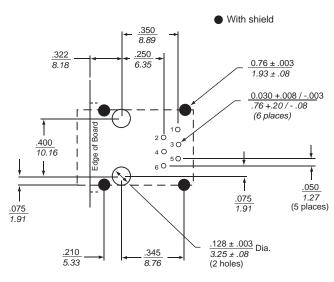
Λ





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 - PC Board Layout



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

255

RJ11-4L1-B RJ11-6LCT1-B

All tolerances \pm 0.010 [0.25] unless otherwise noted

RJ11-4L1-S

RJ11-6L1-S



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

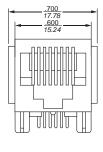


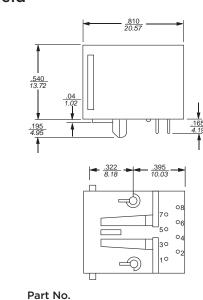
RJ45-6L-S

RJ45-8L-S

RJ45-6L-B

RJ45 - Style 1 Shield



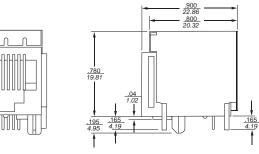


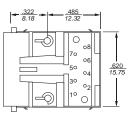
RJ45-8L-B

RJ45-6X

RJ45-8X

RJ45 - Style 2 Shield

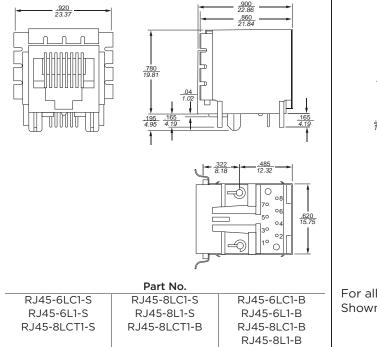


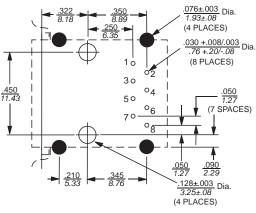


Part No.

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 - PC Board Layout



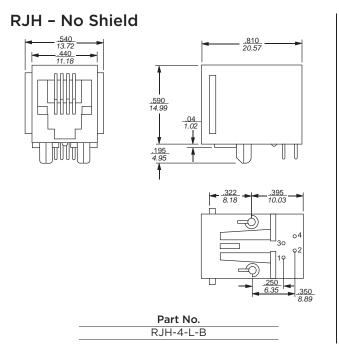


For all RJ45 L, LC, LCT and X Series Models Shown from Component Side

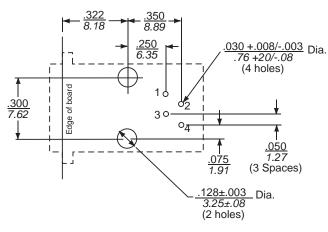
All tolerances ± 0.010 [0.25] unless otherwise noted

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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



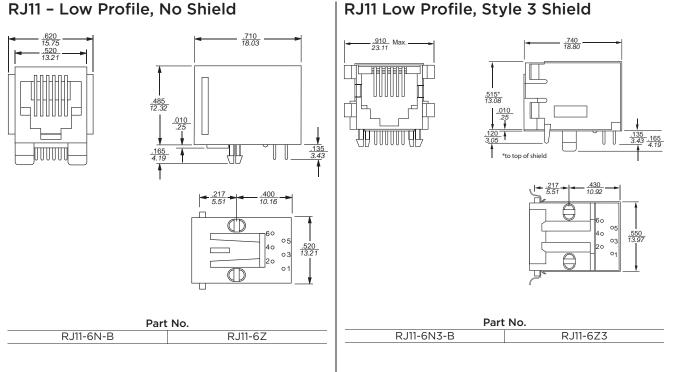
RJH - PC Board Layout



N and Z Series RJ Jack Dimensions

RJ11 - Low Profile, No Shield

257

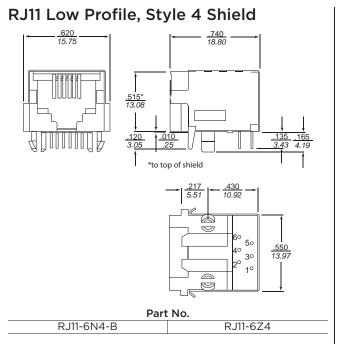


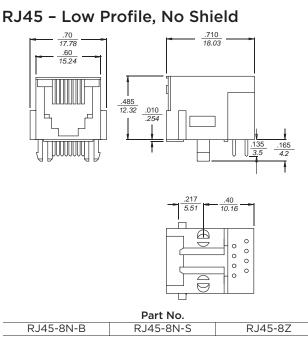
•

All tolerances ± 0.010 [0.25] unless otherwise noted

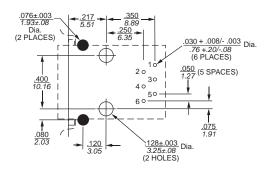


N and Z Series RJ Jack Dimensions (continued)



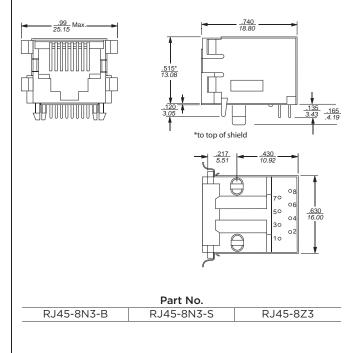


RJ11 Low Profile, PC Board Layout



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

RJ45 - Low Profile, Style 3 Shield

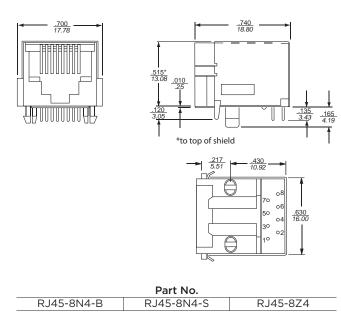


All tolerances ± 0.010 [0.25] unless otherwise noted

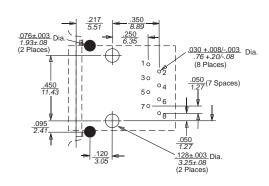


N and Z Series RJ Jack Dimensions (continued)

RJ45 Low Profile, Style 4 Shield



RJ45 Low Profile PC Board Layout



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

All tolerances ± 0.010 [0.25] unless otherwise noted

259