

Description:

100 Base-TX (Fast Ethernet) RJ45 2xN Integrated Connector Module (ICM) with or without LEDs - Designed to support Switch and Gateway applications.





Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality
- Internal magnetics options available
- 350µH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression

Electrical Specifications @ 25°C – Operating Temperature 0°C to +70°C												
RoHS Compliant Part Number	No. of Ports	LEDs	Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω (±15Ω)			Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		
(Number of Ports)		L/R	1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-80 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz
J20-0013NL	4	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
J20-0114NL	8	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
J20-0115NL	12	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
J20-0116NL	16	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
JX20-0114NL*	8	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
JX20-0115NL*	12	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20
JX20-0116NL*	16	G/Y, G/Y	-1	-20	-16	-12	-12	-40	-35	-30	-30	-20

Notes:

1. (*) Operating Temperature: -40°C to +85°C

2. Bi-color LEDs: G = green; Y = yellow for each port

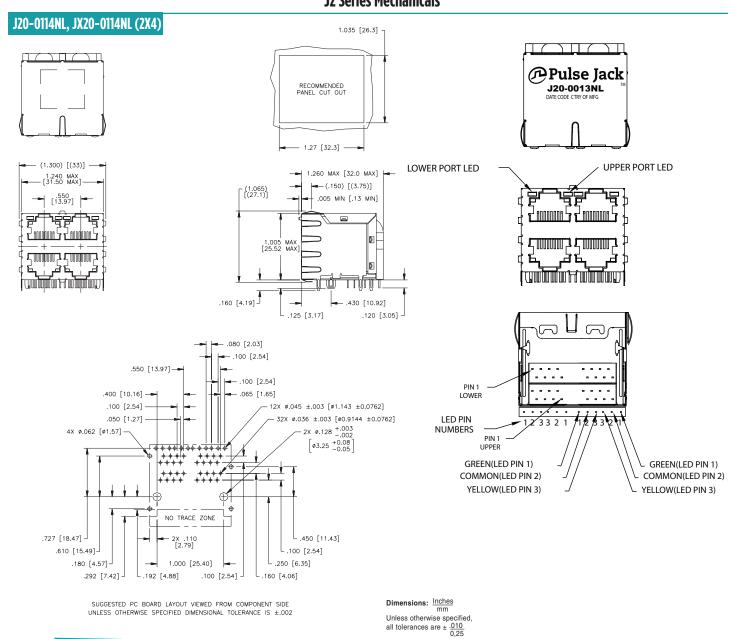
RJ45 Durability Test Rating						
	Mating Force	Unmating Force	Durability			
Part Number	(MAX)	(MAX)				
J2 and JX2 Series	J2 and JX2 Series 5 lbs./2.268 kgs.		750 Insertions			

RJ45 Material Specification								
Part	Shield			Contact	Housing ₂			
Number	Material Finish		Material	Plating Area	Solder Area	Material	Specification	
				Nickel underplating				
		10-20µ inches Nickel		and				
		over 10-20µ inches	Phosphor	selective gold plating	Tin matte finish	Thermoplastic	UL 94 V-0	
J2 and JX2 Series	Brass	Brass	Bronze	30µ inches				

Notes:

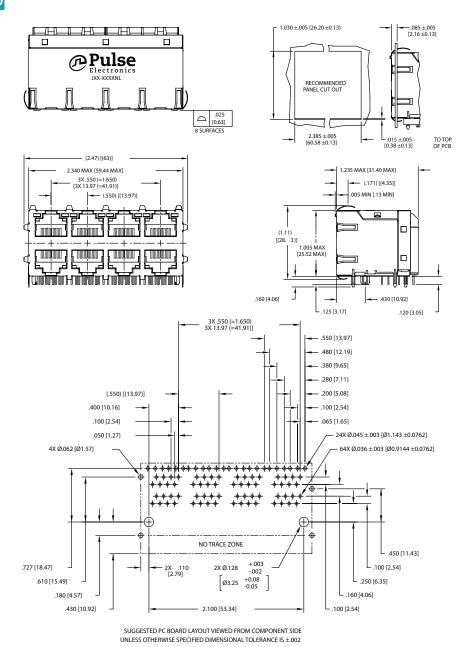
1. All connector part numbers starting with the series prefix J2 and JX2 comply to the above limits. 2. Connector dimensions comply with FCC dimension requirement.

J2 Series Mechanicals

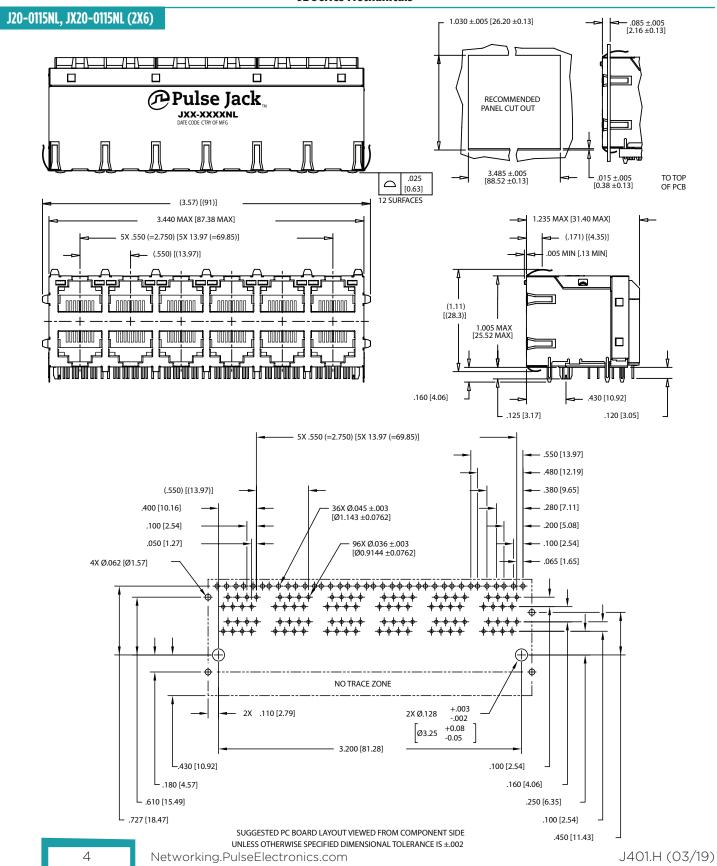


J2 Series Mechanicals

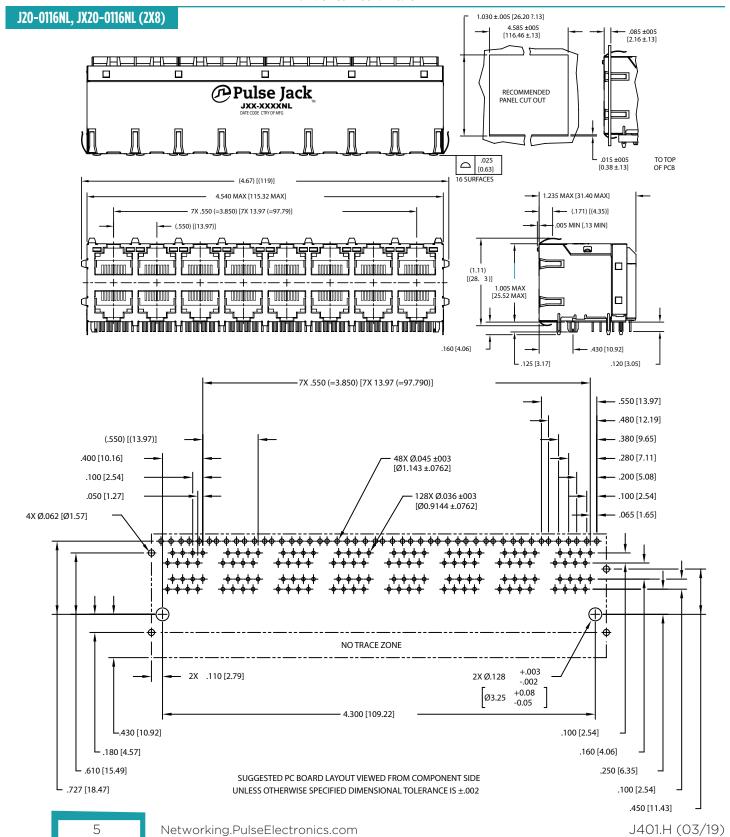
J20-0114NL, JX20-0114NL (2X4)



J2 Series Mechanicals

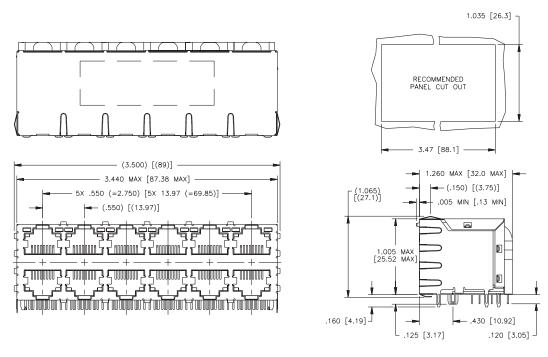


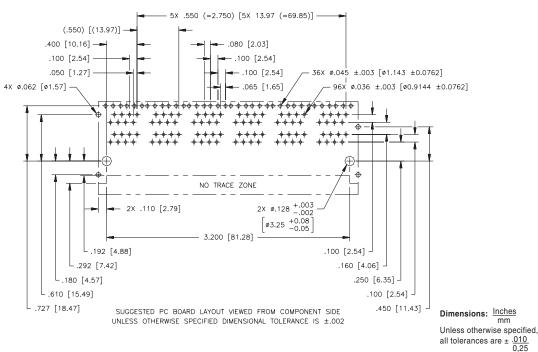
J2 Series Mechanicals



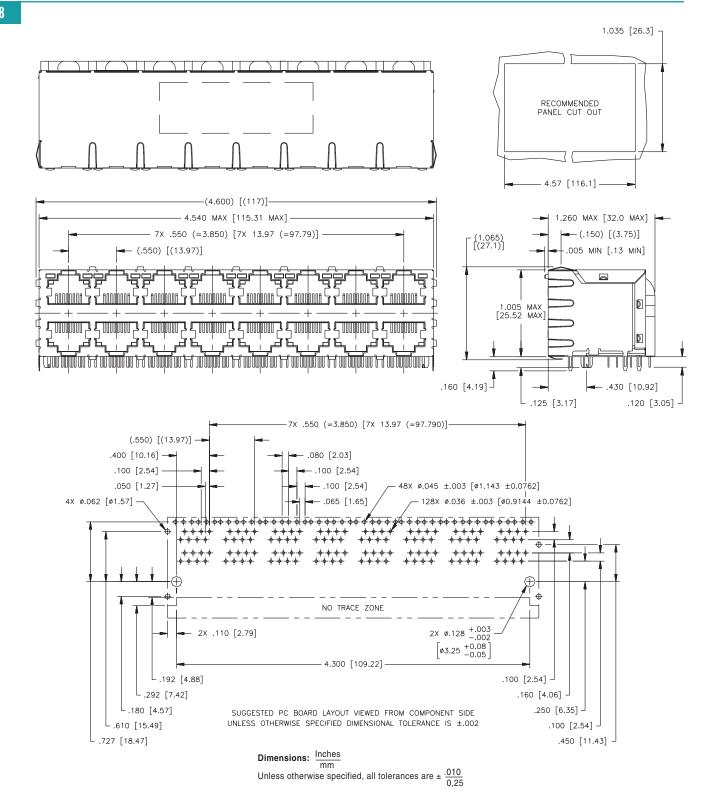
J2 Series (With LEDs) Mechanicals (not PoE Enabled)

2 X 6



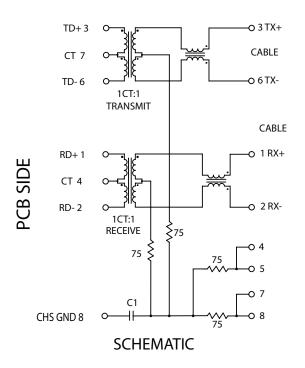


2 X 8

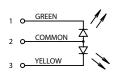


J2 Series Electrical Schematics

J20-XXXXNL and JX20-XXXXNL



LED Configuration



LED ELECTRICAL SPECIFICATIONS						
EMMITTED COLOR	GREEN	YELLOW				
WAVE LENGTH (If = 20 mA)	570 nm	590 nm				
BRIGHTNESS - MIN TO MAX (mcd) If - (mA)	5 TO 12 20	3.5 TO 8.5 20				
VIEWING ANGLE	120°	120°				
POWER DISSIPATION (Pd)	85 mW MAXIMUM	85 mW MAXIMUM				
FORWARD CURRENT (0.1 mS PULSE)	160 mA MAXIMUM	160 mA MAXIMUM				
FORWARD VOLTAGE (Vf) (If = 20 mA)	2.8 V MAXIMUM	2.8 V MAXIMUM				

NOTE: PER VENDOR'S SPECIFICATION

For More Information:

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