

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 (Number of Ports)	No. of Ports	LEDs	Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω (±15Ω)			Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		
		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

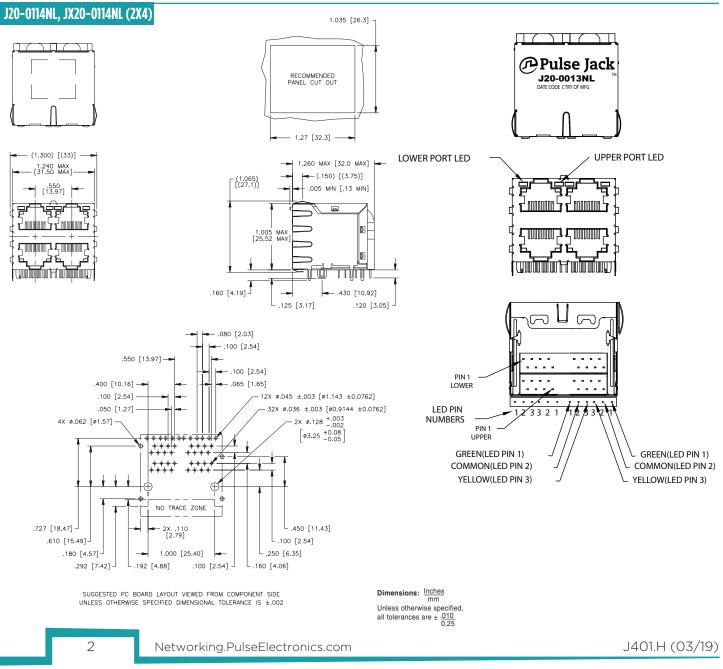
2. Bi-color LEDs: G = green; Y = yellow for each port

RJ45 Durability Test Rating						
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability			
J2 and JX2 Series	5 lbs./2.268 kgs.	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			
		10-20 μ inches Nickel		and			
		over 10-20 μ inches	Phosphor	selective gold plating	Tin matte finish	Thermoplastic	UL 94 V-0
J2 and JX2 Series	Brass	Brass	Bronze	30µ inches			

Notes:

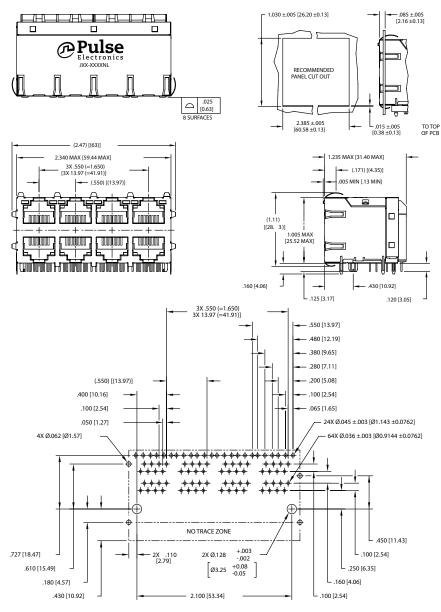
1. All connector part numbers starting with the series prefix J2 and JX2 comply to the above limits. 2. Connector dimensions comply with FCC dimension requirement.



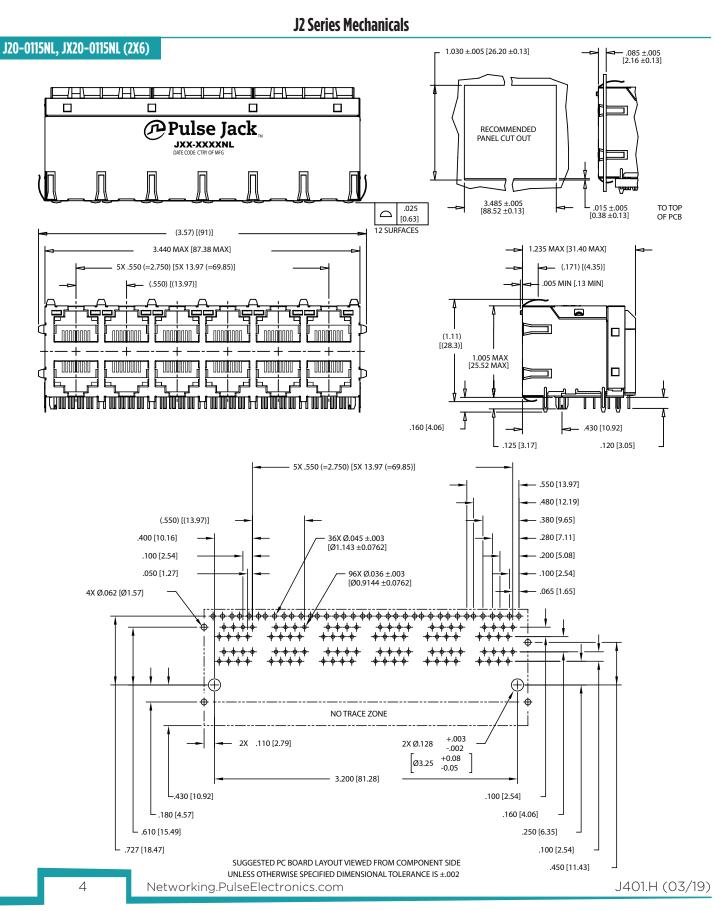
J2 Series Mechanicals

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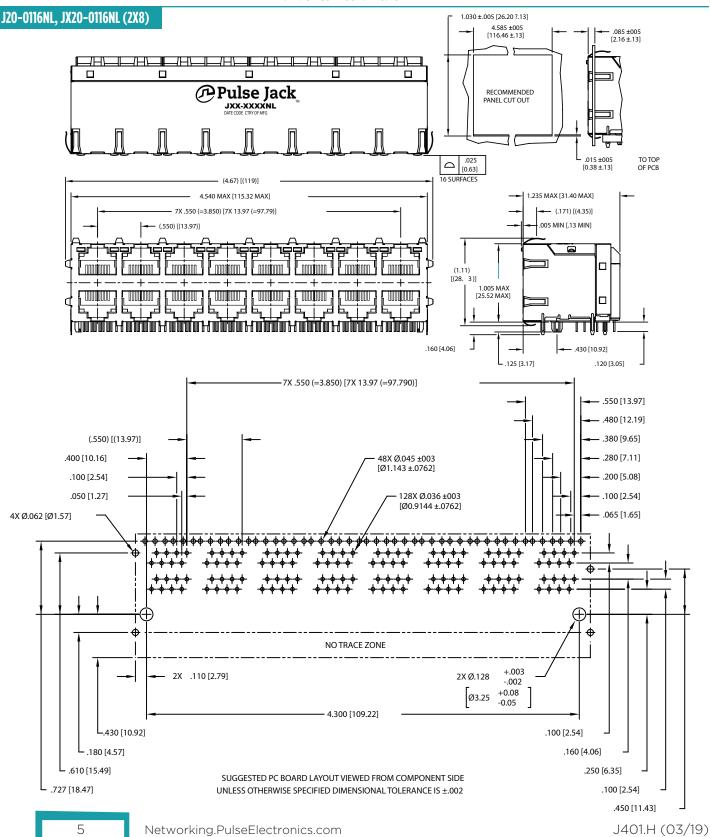


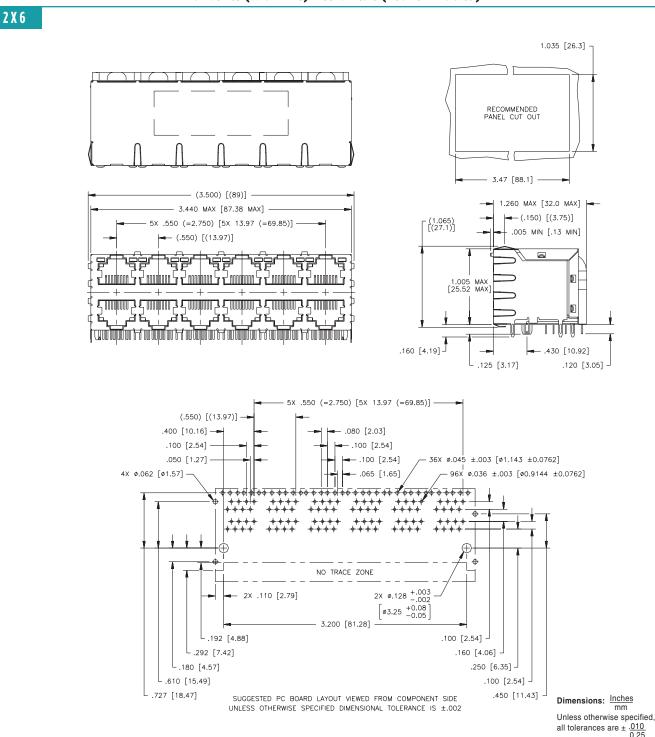


SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

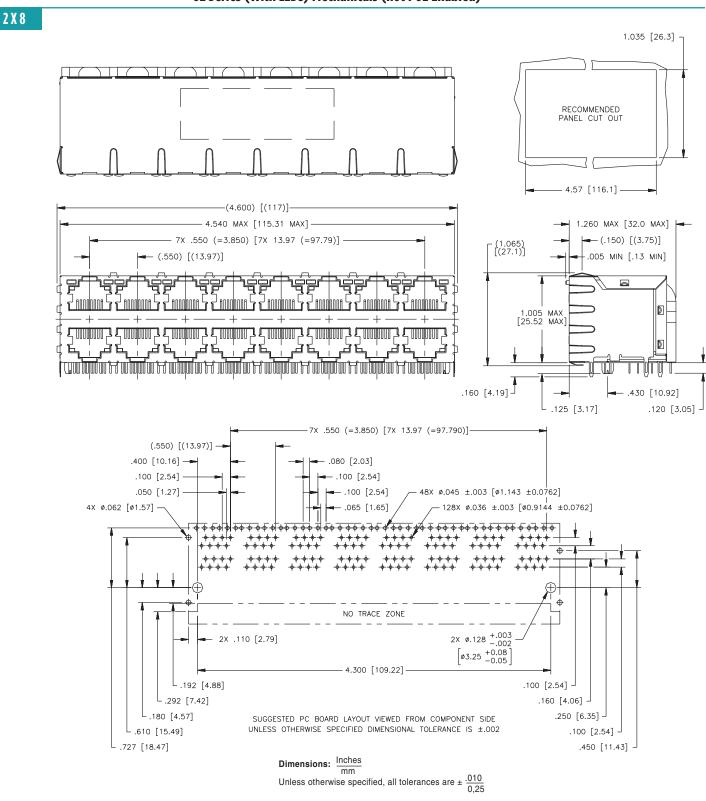


J2 Series Mechanicals





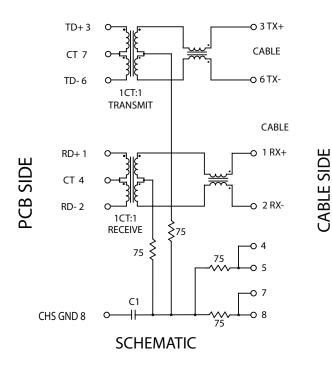
J2 Series (With LEDs) Mechanicals (not PoE Enabled)



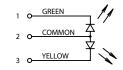
J2 Series (With LEDs) Mechanicals (not PoE Enabled)

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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