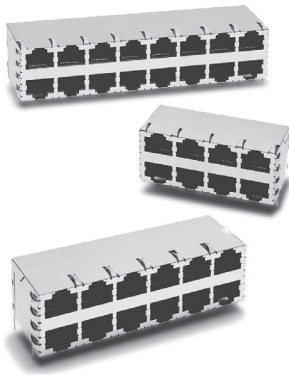


PulseJack® 2xN RJ45 Connector



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

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

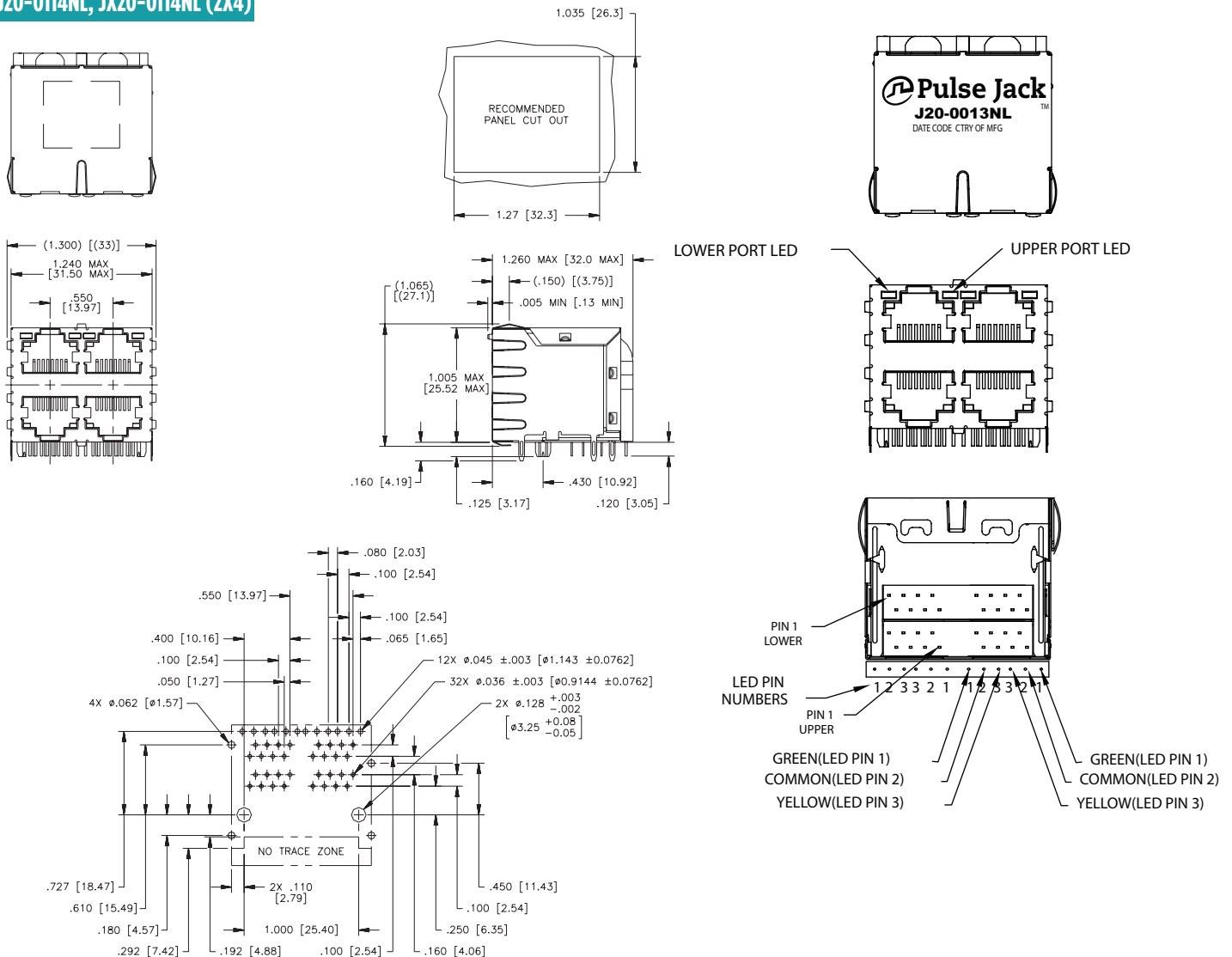
RJ45 Material Specification							
Part Number	Shield		Contact			Housing	
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification
J2 and JX2 Series	Brass	10-20μ inches Nickel over 10-20μ inches Brass	Phosphor Bronze	Nickel underplating and selective gold plating 30μ inches	Tin matte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

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

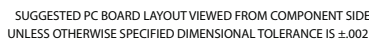
J20-0114NL, JX20-0114NL (2X4)



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ± 0.02

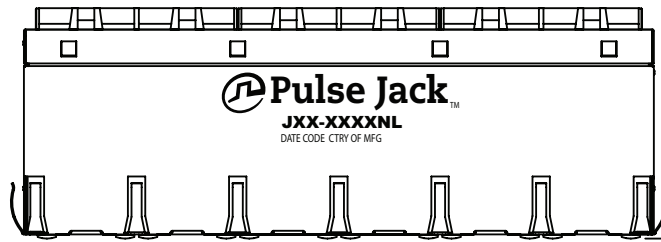
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \begin{smallmatrix} .010 \\ .025 \end{smallmatrix}$

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

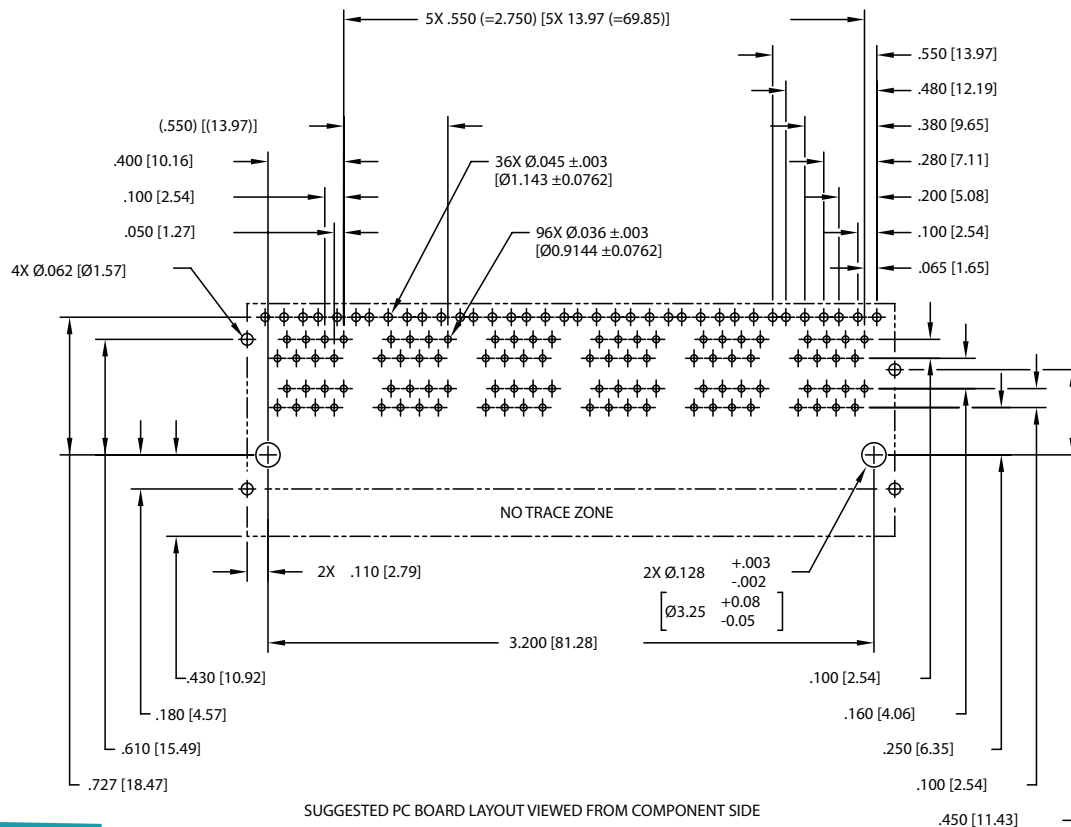
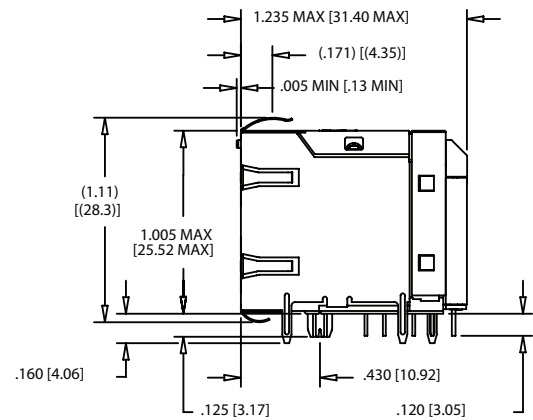
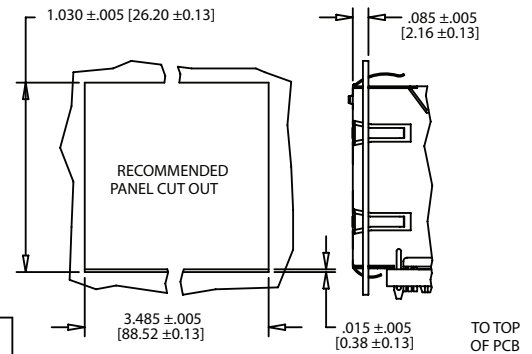
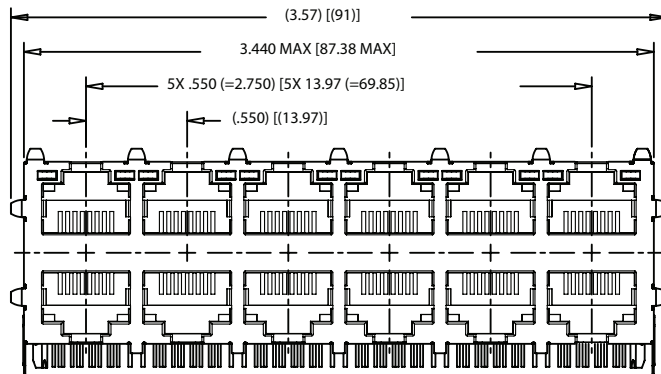


J2 Series Mechanicals

J20-0115NL, JX20-0115NL (2X6)



.025
[0.63]
12 SURFACES



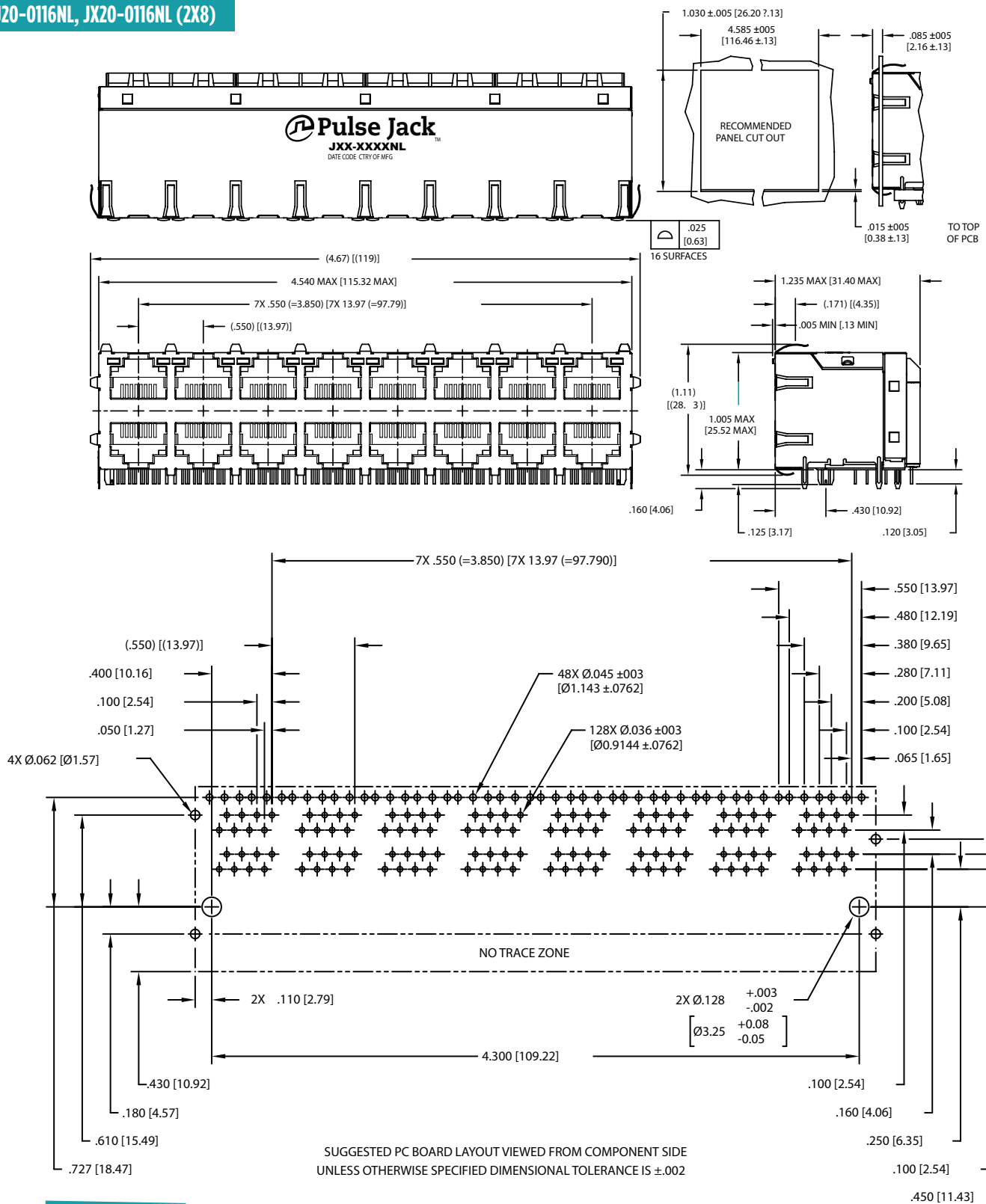
SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

pulseelectronics.com

J401.H (09/14)

J2 Series Mechanicals

J20-0116NL, JX20-0116NL (2X8)



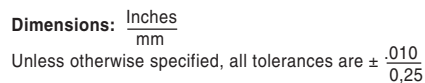
2 X 6



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

2X8

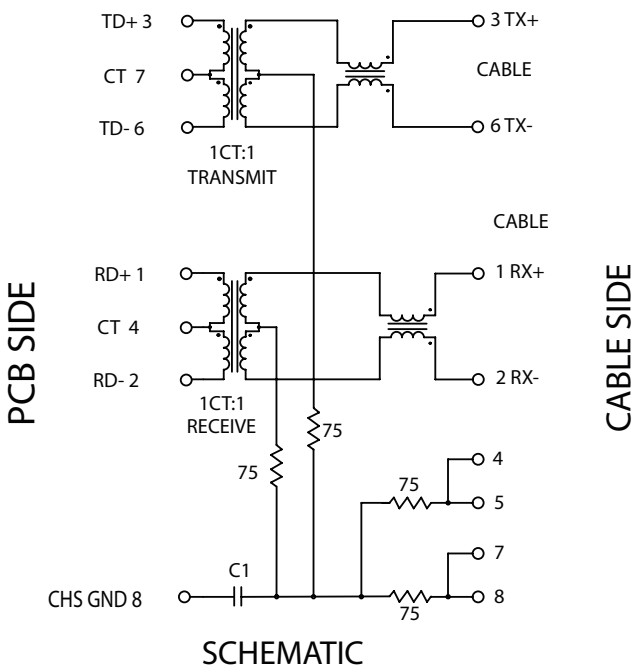


PulseJack®

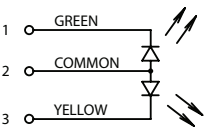
2xN RJ45 Connector

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

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