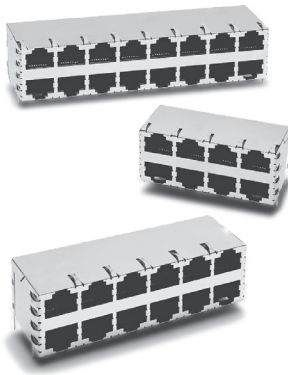


PulseJack® 2xN RJ45 Connector



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

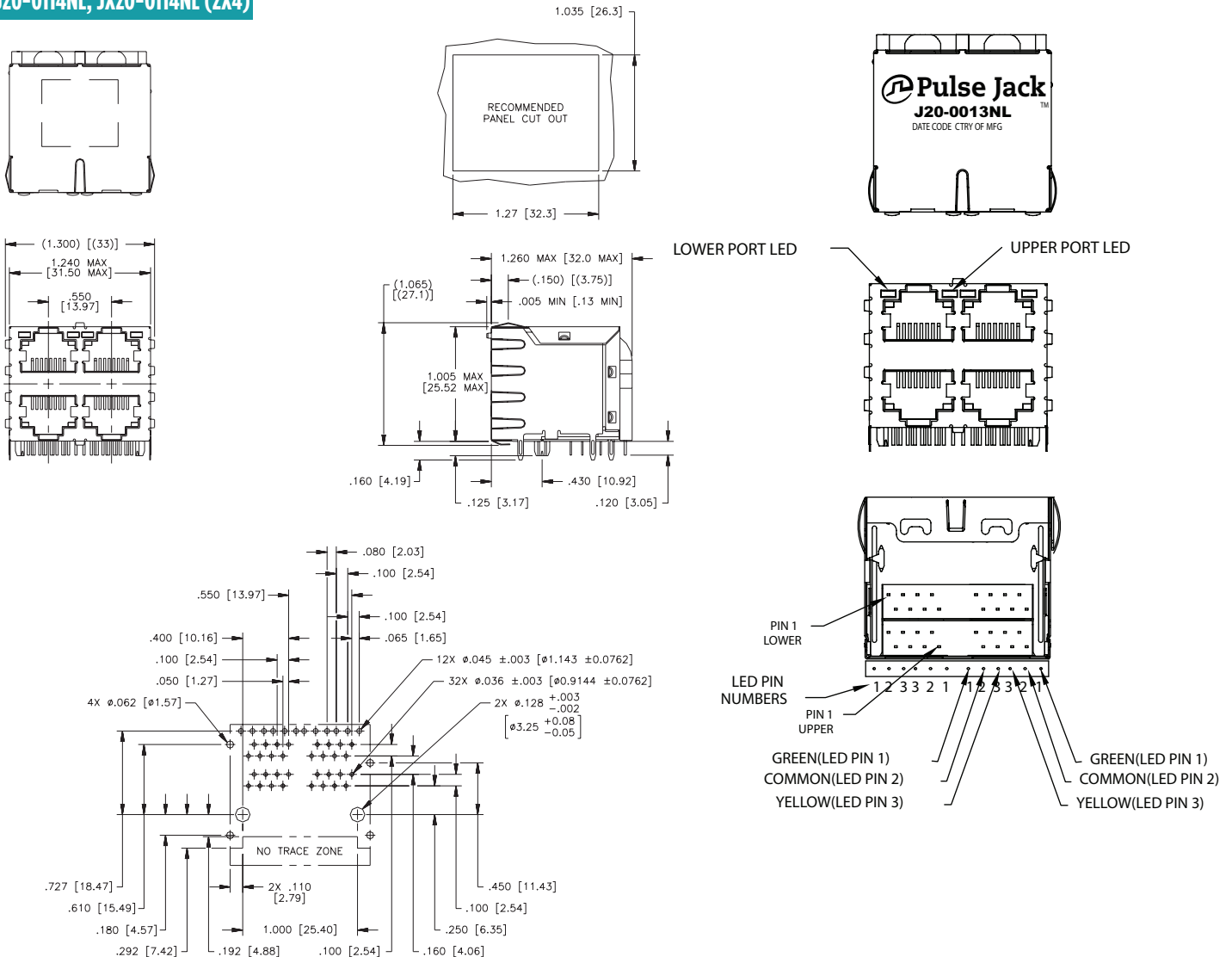
China 86 755 33966678

Taiwan 886 3 4356768

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)

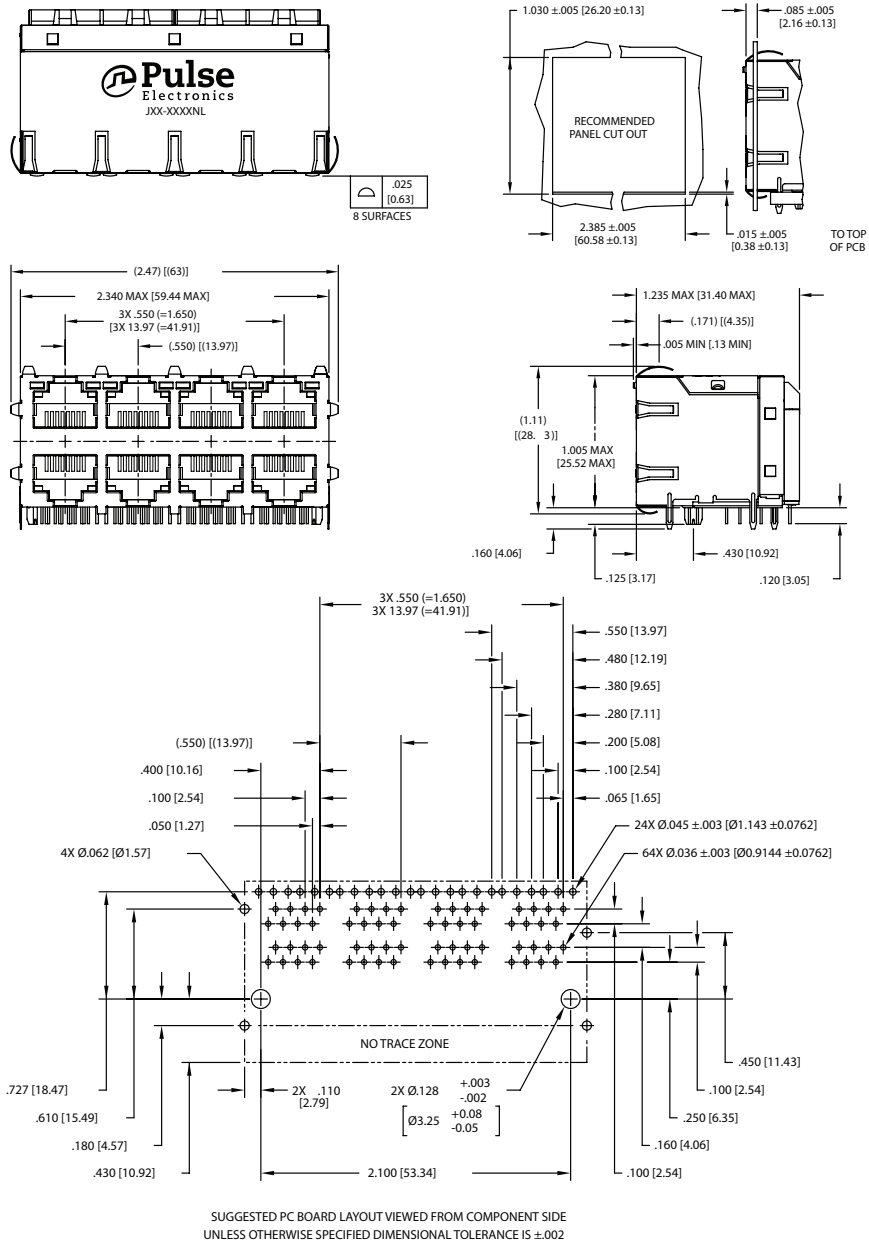


SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ± 0.002

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

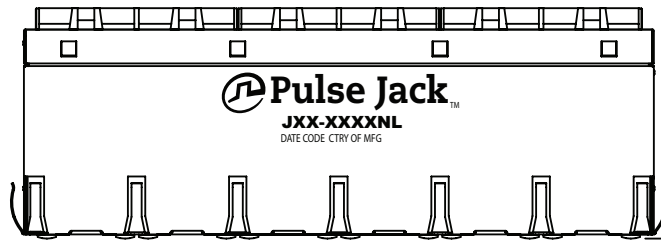
J2 Series Mechanicals

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

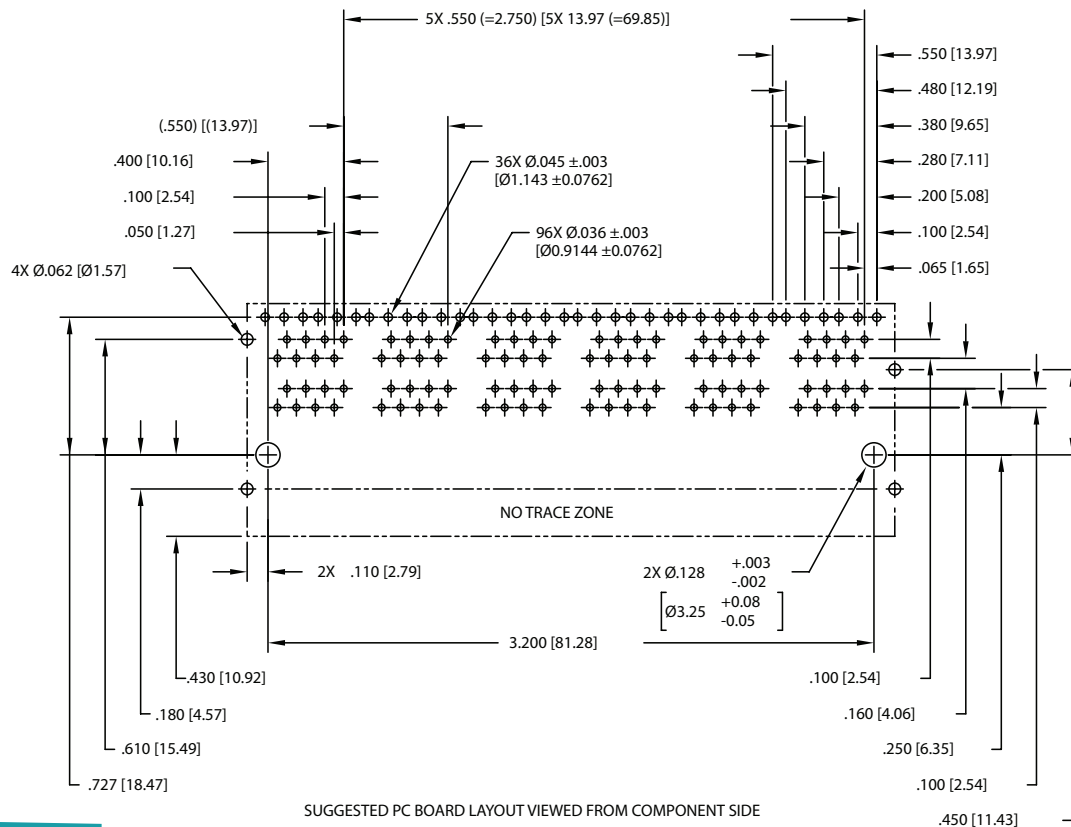
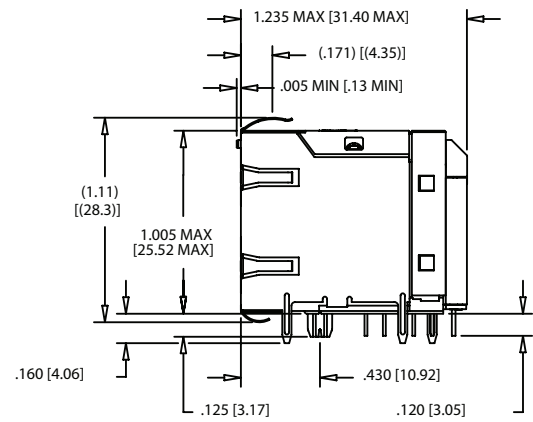
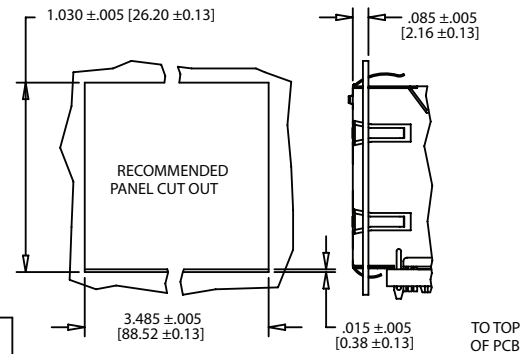
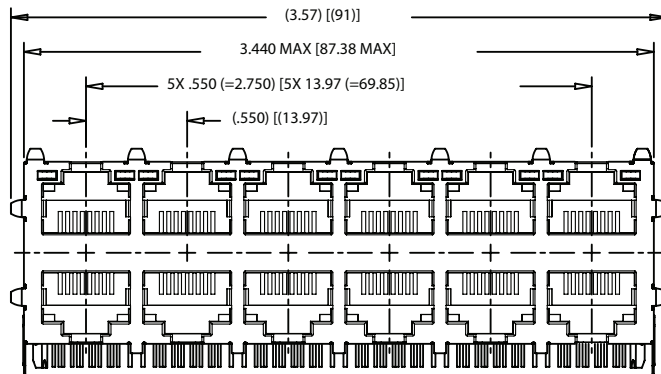


J2 Series Mechanicals

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



.025
[0.63]
12 SURFACES



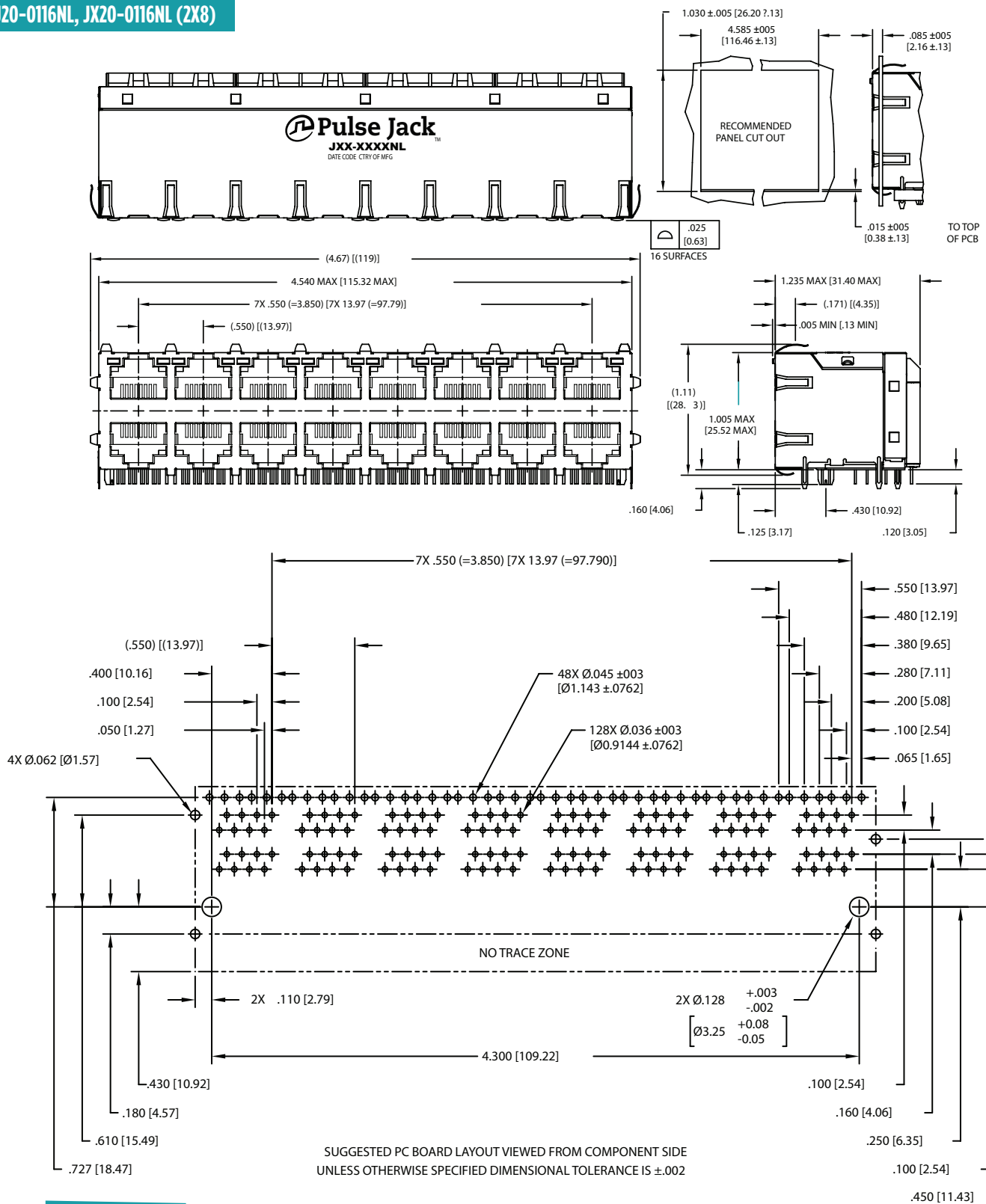
SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

pulseelectronics.com

J401.H (09/14)

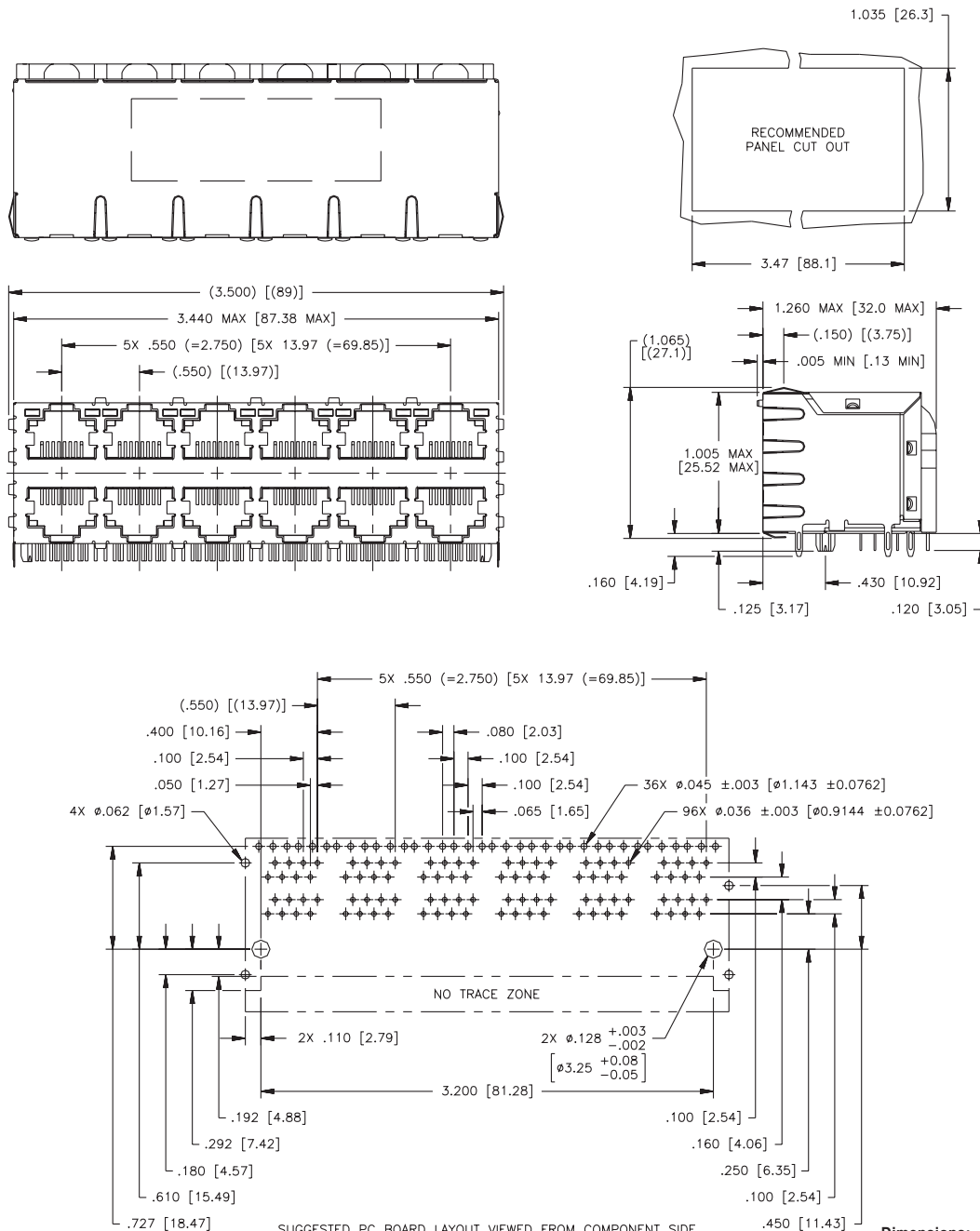
J2 Series Mechanicals

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



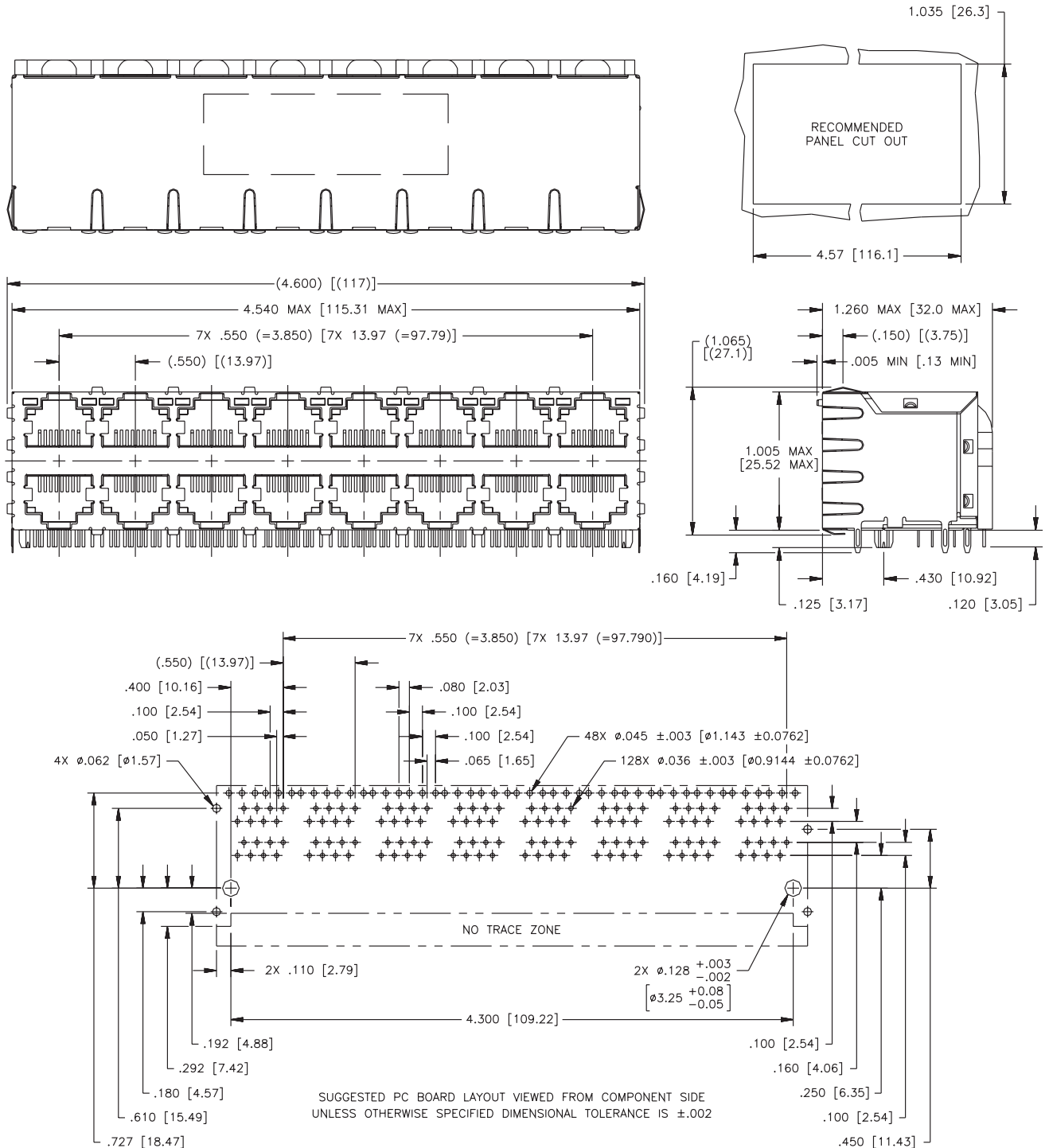
J2 Series (With LEDs) Mechanicals (not PoE Enabled)

2X6



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

2X8



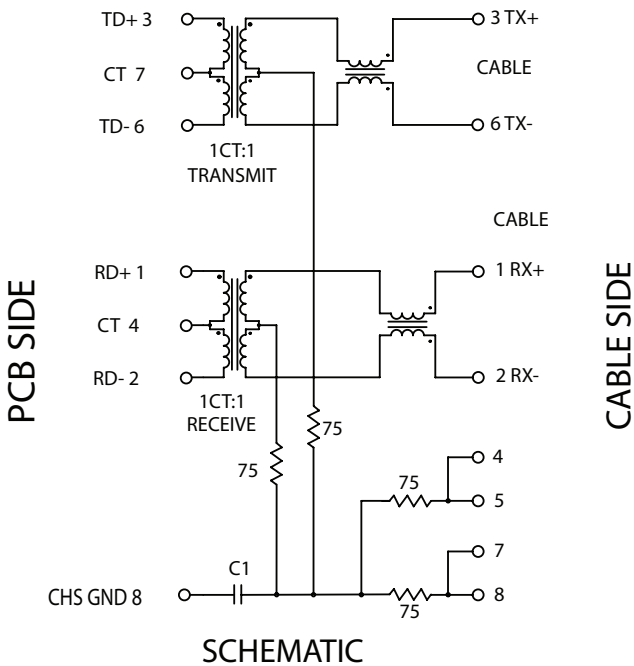
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

PulseJack®

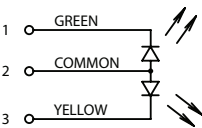
2xN RJ45 Connector

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

For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806

Pulse China Headquarters
B402, Shenzhen Academy of Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzen, PR China 518057

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road
West
Shanghai 200336
China

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823
(Pulse)

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