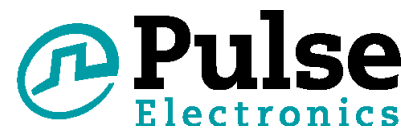


PulseJack™

1X4 Tab-Up PoE and PoE+

Description:

100/1000 Base-T 1x4 Tab-Up Low Profile Integrated Connector Module (ICM), with or without LEDs - Designed to support Router applications.



Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Meets IEEE 802.3 specification
- 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	Speed	PoE/PoE+	LEDs L/R	Insertion Loss TX/RX (dB TYP) 1-100 MHz	Return Loss (dB TYP) 100Ω (±15Ω)			Crosstalk (dB TYP)			Common Mode Rejection (dB TYP) 1-125 MHz	Hipot @ 60Hz 1 MIN (Vrms MIN)
					1-10 MHz	30 MHz	60-80 MHz	1-10 MHz	30-60 MHz	60-100 MHz		
J1N-0003NL	1000Base-T	PoE+	G/G	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0004NL	1000Base-T	PoE+	None	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0005NL	1000Base-T	None	G-0/G	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0006NL	1000Base-T	None	None	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0007NL	1000Base-T	PoE	None	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0008NL	1000Base-T	PoE	G/G	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0011NL	100Base-TX	PoE	None	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0012NL	100Base-TX	None	None	-1.0	-20	-18	-14	-45	-40	-35	-35	1500
J1N-0013NL	100Base-TX	None	G/Y	-1.0	-20	-18	-14	-45	-40	-35	-35	1500

Notes:

1. LEDs Left/Right: **G** = Green, **O** = Orange **Y** = Yellow

RJ45 Durability Testing Rating

Part Number	Mating Force (MAX)	Ultimate Force (MAX)	Durability	Plug to Jack Retention (MIN)
J1N Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.

RJ45 Material Specification

Part Number	Shield		Contact			Housing		
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	MSL ²
J1N Series	Brass	20-40µ inches thick Nickel over Brass	Phosphor Bronze	30µ inches gold over 30-80µ inches nickel	Tin matte finish	Thermoplastic	UL 94 V-0	1

Notes:

1. Connector dimensions comply with FCC part 68 dimension requirements.

2. MSL = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

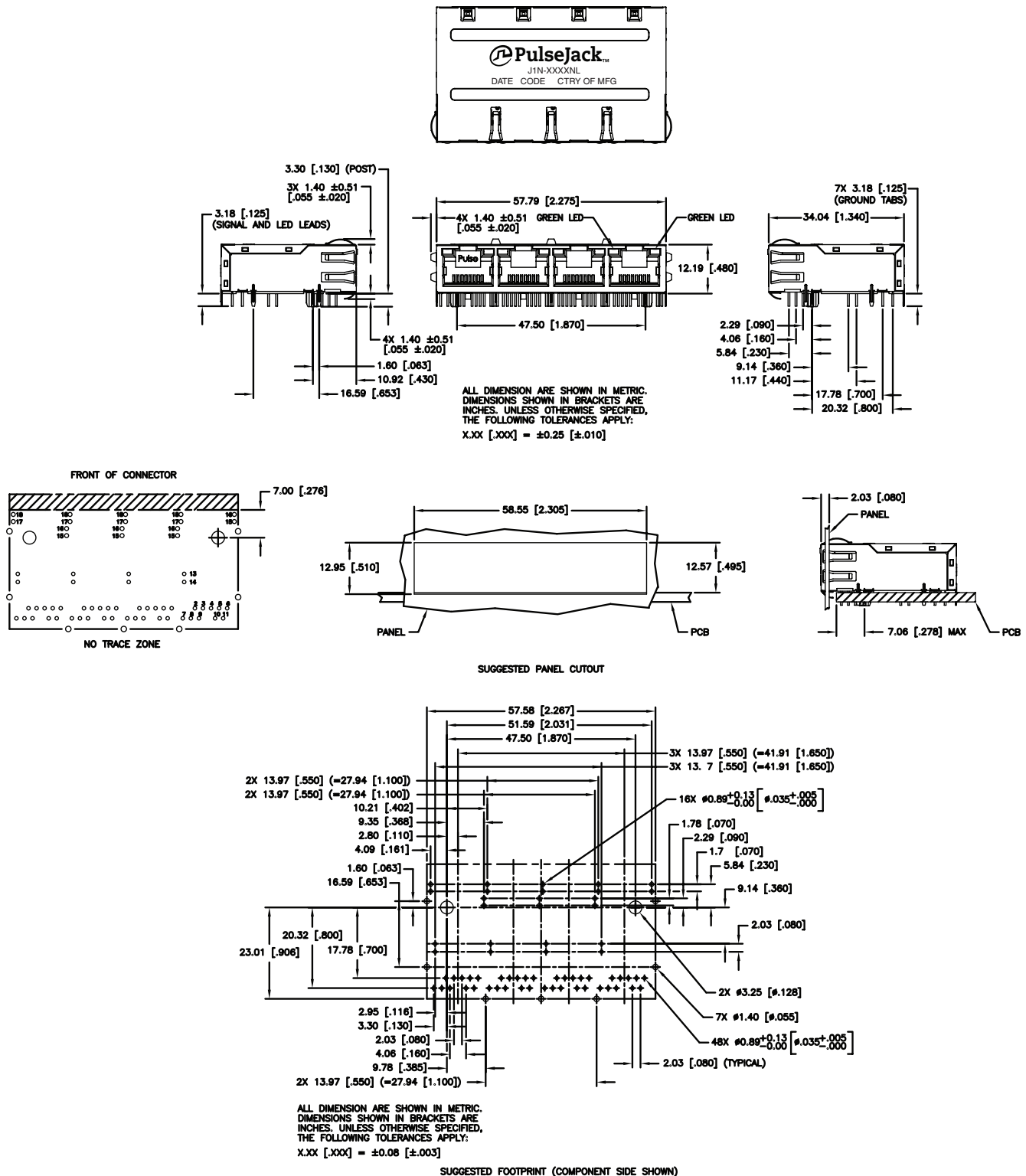
Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

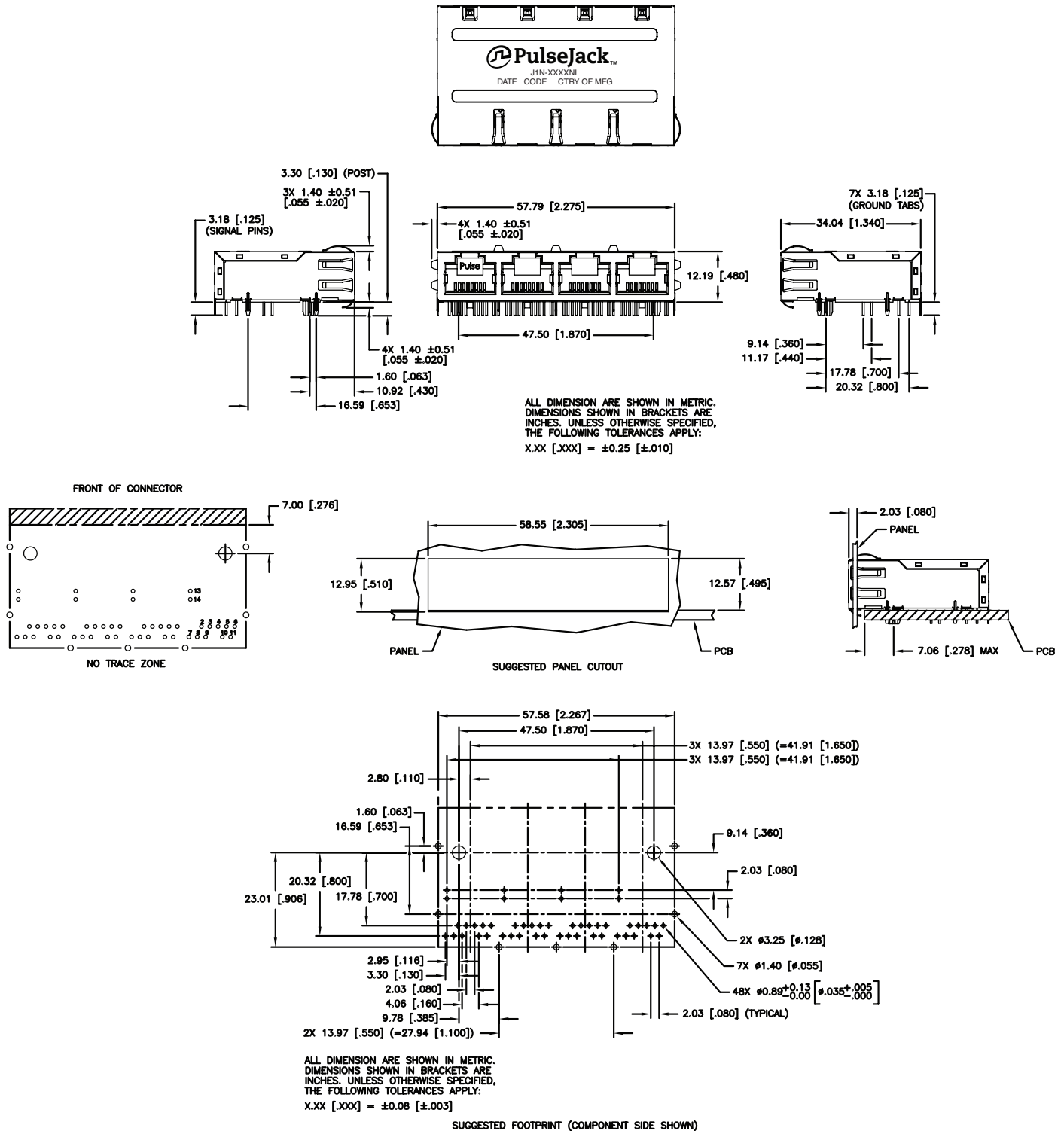
Mechanicals

J1N-0003NL, J1N-0008NL



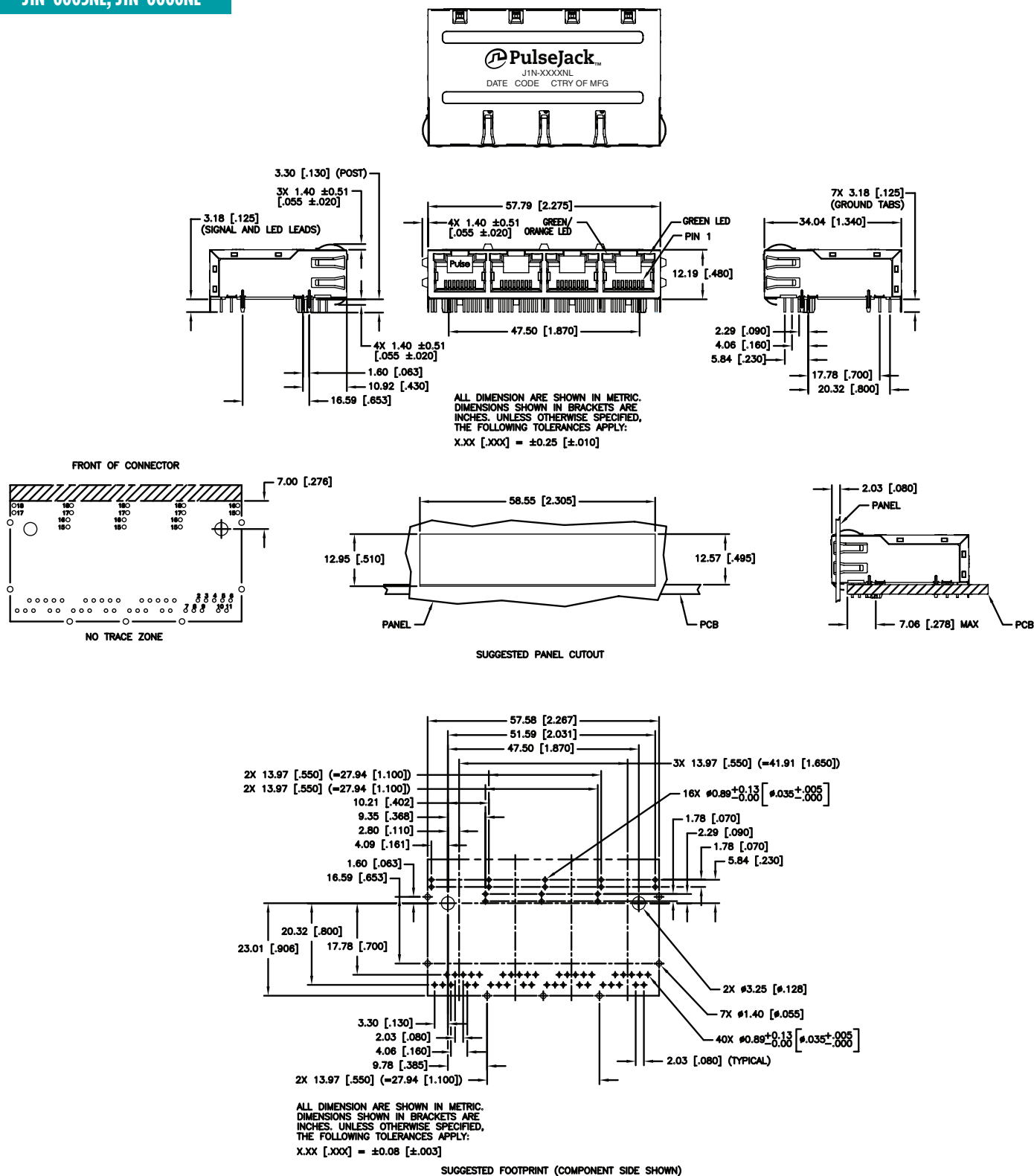
Mechanicals (continued)

J1N-0004NL, J1N-0007NL



Mechanicals *(continued)*

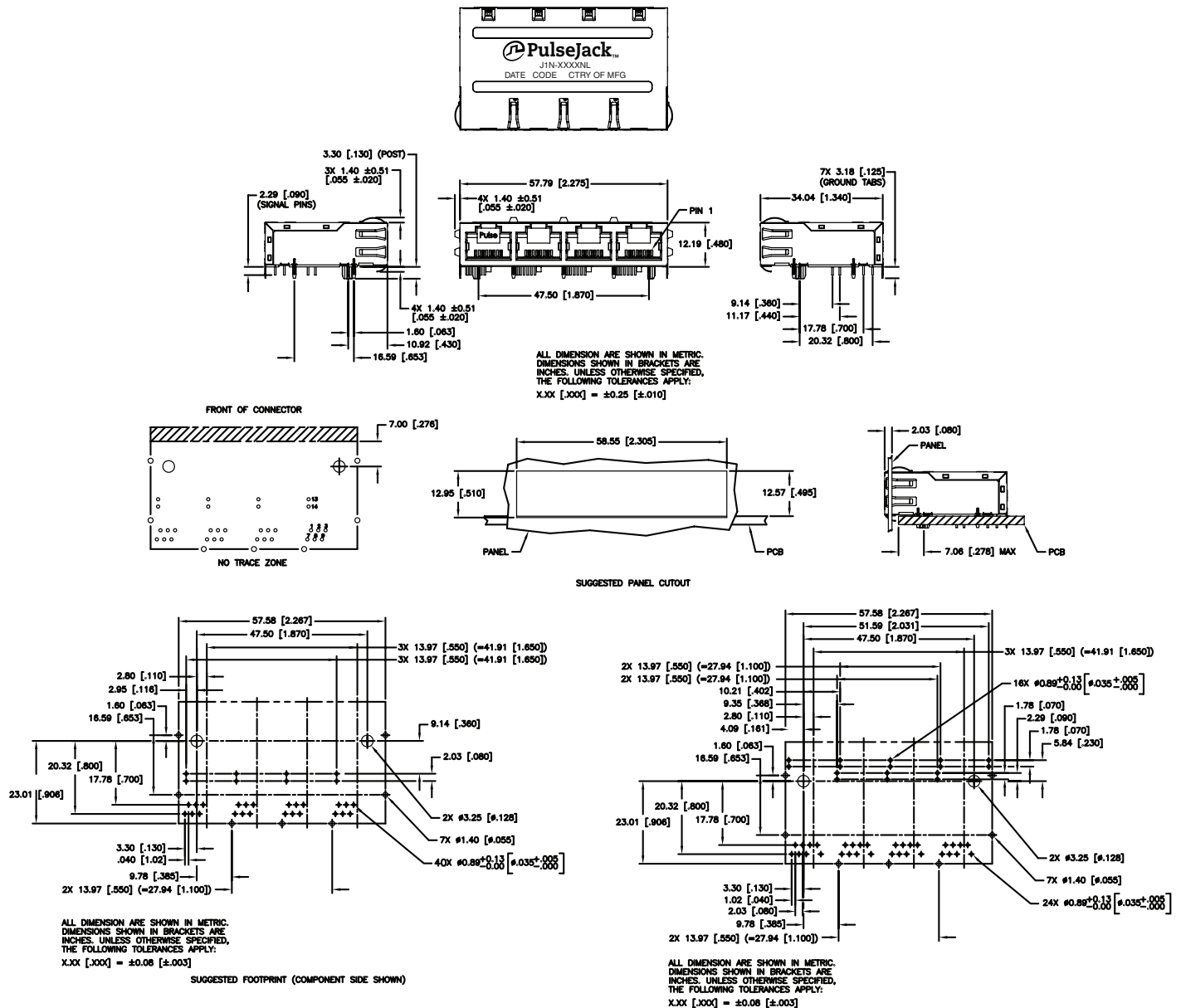
J1N-0005NL, J1N-0006NL



Note: No LED's pinout for J1N-0006NL

Mechanicals (continued)

J1N-0011NL, J1N-0012NL, J1N-0013NL



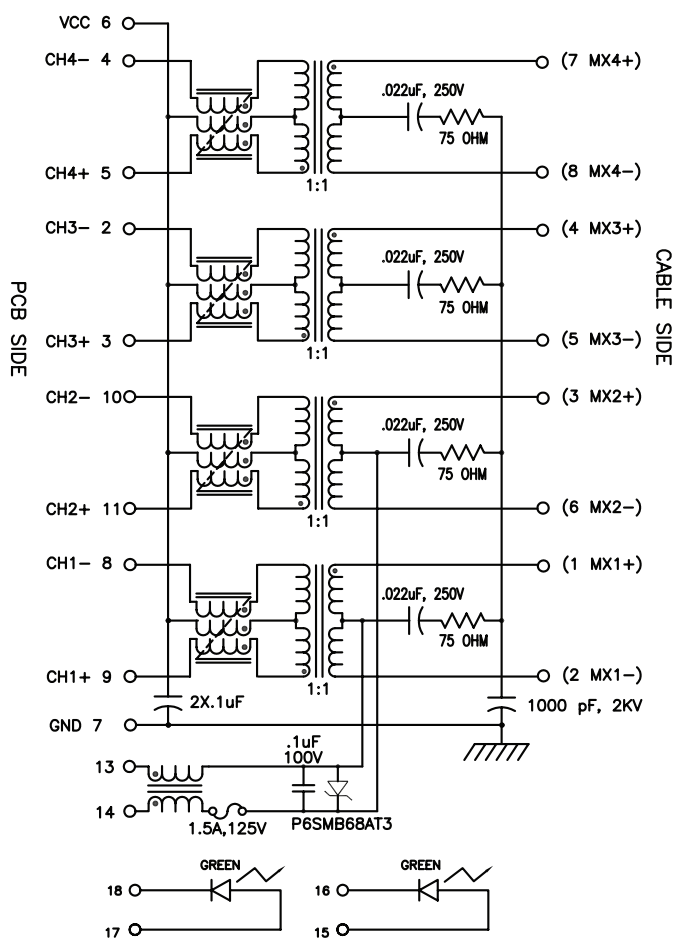
Note: No PoE pinout for J1N-0012NL

SUGGESTED FOOTPRINT (J1N-0013NL SIDE SHOW)

Schematics

J1N-0003NL, J1N-0004NL, J1N-0007NL, J1N-0008NL

J1N-0005NL, J1N-0006NL,

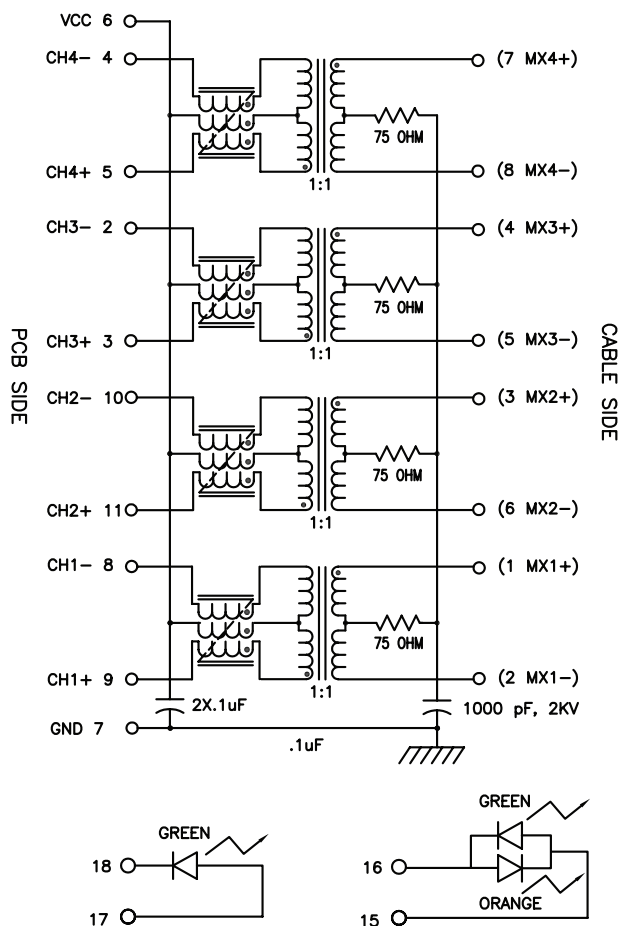


SCHEMATIC (EACH PORT)

EMMITTED COLOR	GREEN
WAVELENGTH (nm)	565
POWER DISSIPATION (Pd)	105 mW MAX
AVERAGEDDC FORWARD CURRENT	25 mA
FORWARD VOLTAGE (VF) @20mA	2.2 V TYP

NOTE: PER VENDOR'S SPECIFICATION

LED SPECIFICATIONS FOR J1N-0003NL AND J1N-0008NL



SCHEMATIC (EACH PORT)

EMMITTED COLOR	GREEN	ORANGE	GREEN
WAVELENGTH (nm)	565	607	565
POWER DISSIPATION (Pd)	105 mW MAX	105 mW MAX	100 mW MAX
AVERAGEDDC FORWARD CURRENT	25 mA	30 mA	30 mA
FORWARD VOLTAGE (VF) @20mA	2.2 V TYP	2.0 V TYP	2.2 V TYP

NOTE: PER VENDOR'S SPECIFICATION

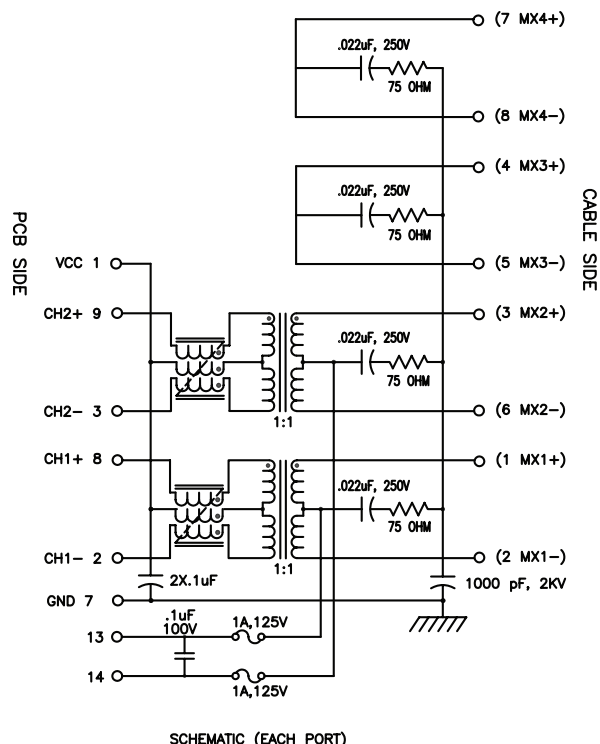
LED SPECIFICATIONS FOR J1N-0005NL

PulseJack™

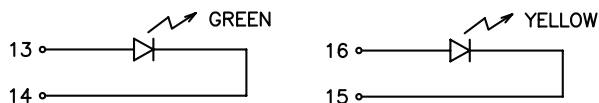
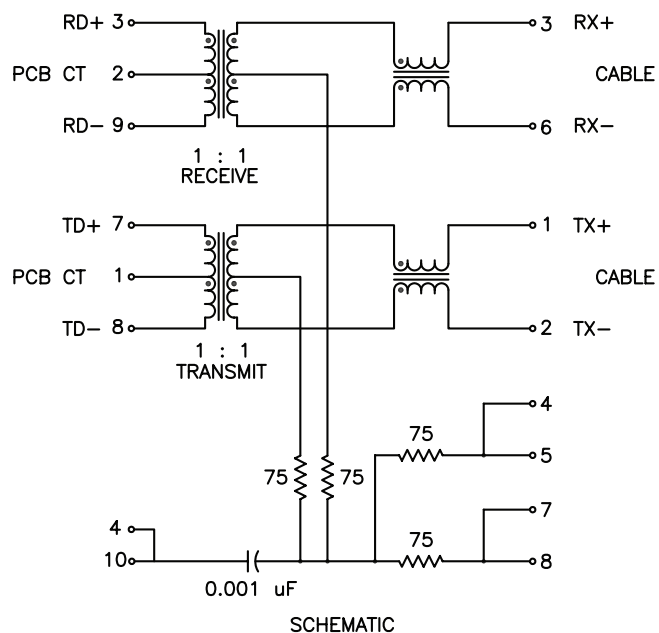
1X4 Tab-Up PoE and PoE+

Schematics (continued)

J1N-0011NL, J1N-0012NL



J1N-0013NL



EMMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	565	565
POWER DISSIPATION (Pd)	105 mW MAX	105 mW MAX
AVERAGEDC FORWARD CURRENT	25 mA	25 mA
FORWARD VOLTAGE (VF) @20mA	2.2 V TYP	2.2 V TYP

NOTE: PER VENDOR'S SPECIFICATION

LED SPECIFICATIONS FOR J1N-0013NL

For More Information

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

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 78060
Fax: 49 7032 7806 135

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejian Road
High-Tech Zone
Nanshan District
Shenzhen, PR China
518057
Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road
West
Shanghai 200336
China
Tel: 86 21 62787060
Fax: 86 2162786973

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)
Fax: 886 3 4356820 (FRE)

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