PulseJack®
2xN Gigabit PoE Plus

U.S. Patent#7241181

Description:
10/100/1000Base-T RJ45 2xN PoE Plus Integrated Connector with Magnetics, with the addition of power feeding over signal pairs.

Features and Benefits:

- *RoHS peak wave solder temperature rating 260°C*
- *Suitable for CAT 5 & 6 UTP cable or better*
- *Power over Ethernet Plus (PoE+) enabled - compatible to IEEE 802.3at standard*
- *350µH minimum OCL with 18.3mA DC 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)	PoE Enabled	Turns Ratio (±2%)	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100Ω (±15Ω)			Crosstalk (dB TYP)			Common Mode Rejection		Hipot (Vdc MIN) (dB TYP)
			1-100 MHz	1-40 MHz	60 MHz	100 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-10 MHz	10-150 MHz	1 MIN
J0B-0384NL (2X4)	YES	1:1	-1.4	-18	-14	-10	-50	-41	-31	-50	-30	2250
J0B-0386NL (2X6)	YES	1:1	-1.4	-18	-14	-10	-50	-41	-31	-50	-30	2250
J0B-0388NL (2X8)	YES	1:1	-1.4	-18	-14	-10	-50	-41	-31	-50	-30	2250

Notes: Contact Pulse for LED options

RJ45 Durability Test Rating

Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability
J0B Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions

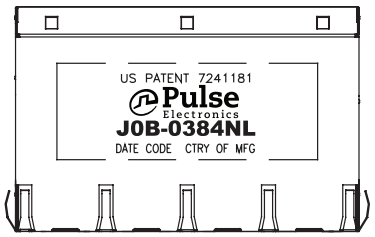
RJ45 Material Specification

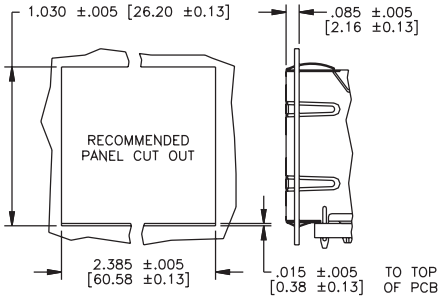
Part Number	Shield		Contact			Housing		MSL [2] Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
J0B Series	Brass	20-40µ inches thick nickel over brass	Phosphor Bronze	50µ inches gold over 30-50µ inches nickel	Tin matte finish over nickel	Thermoplastic	UL 94 V-0	1

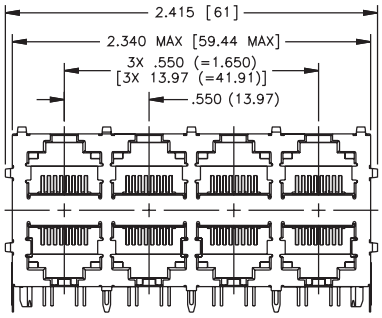
Notes:
1. Connector dimensions comply with FCC dimension requirements.

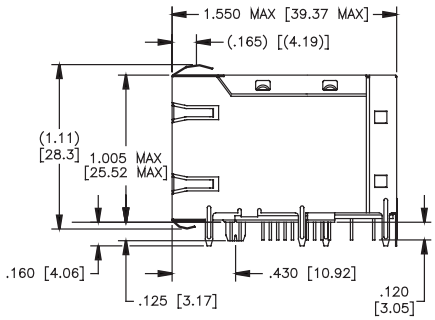
2X4 Mechanicals (No LEDs)

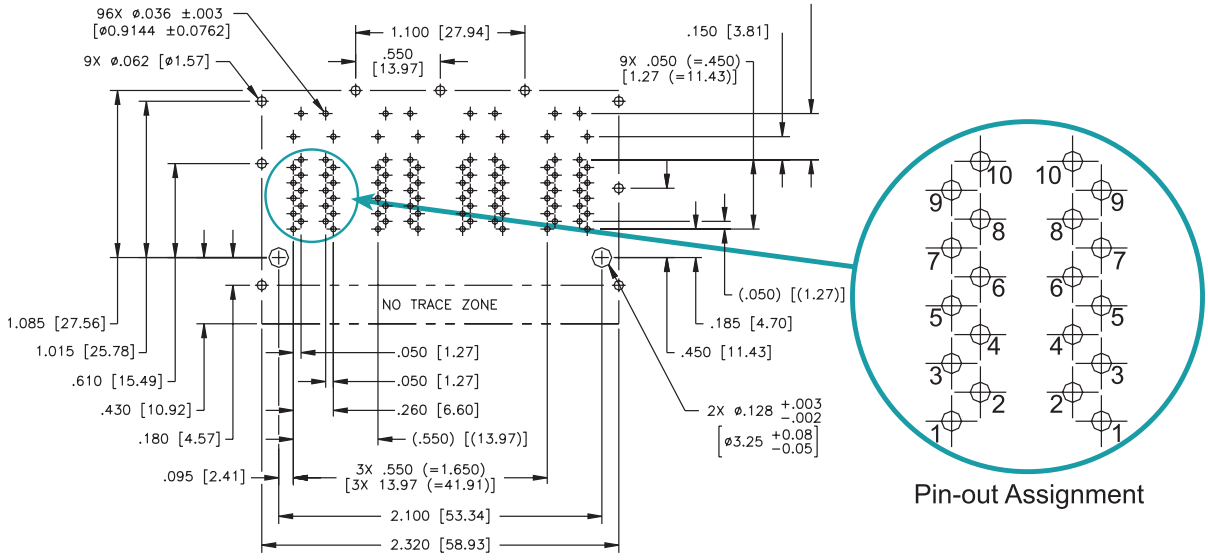
J0B-0384NL







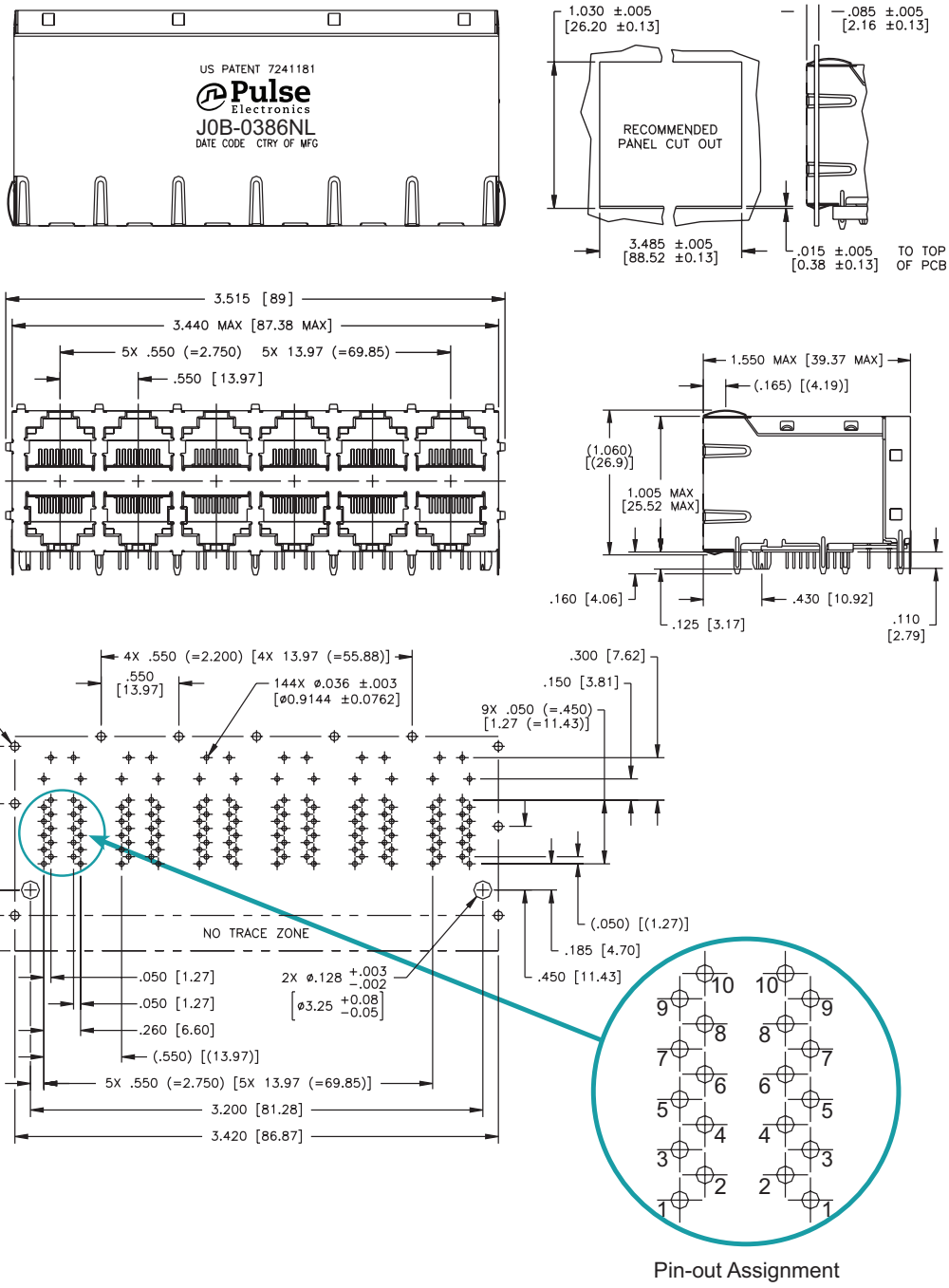




Pin-out Assignment

2X6 Mechanicals (No LEDs)

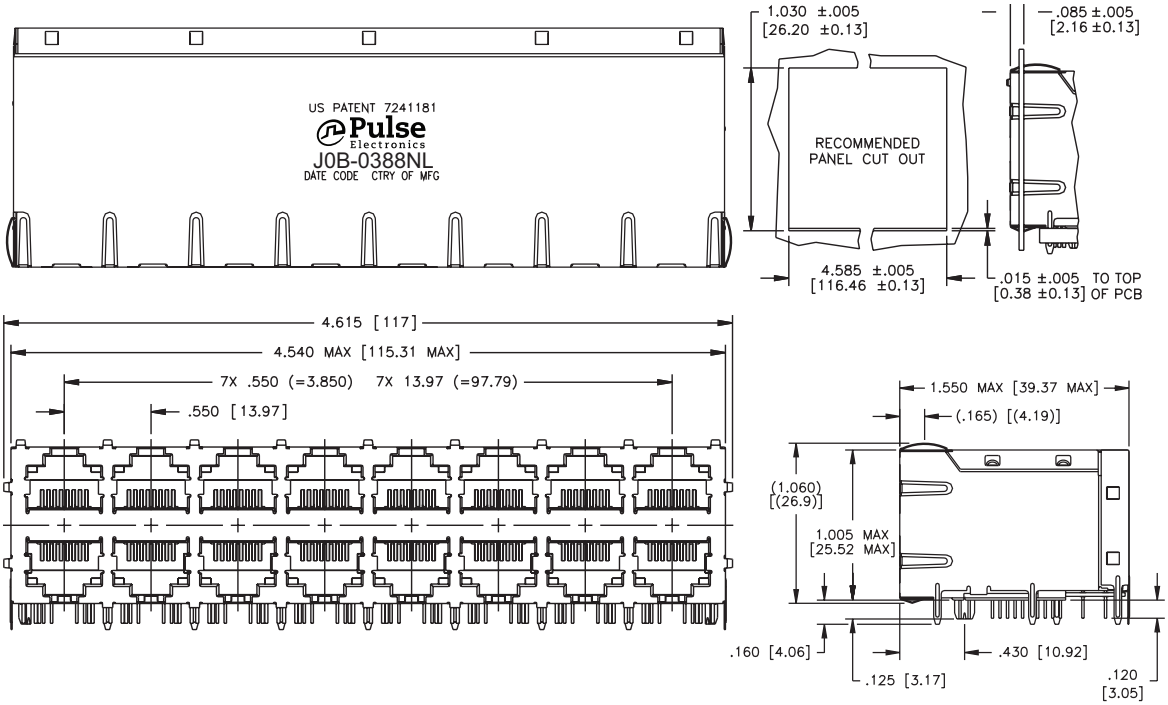
J0B-0386NL

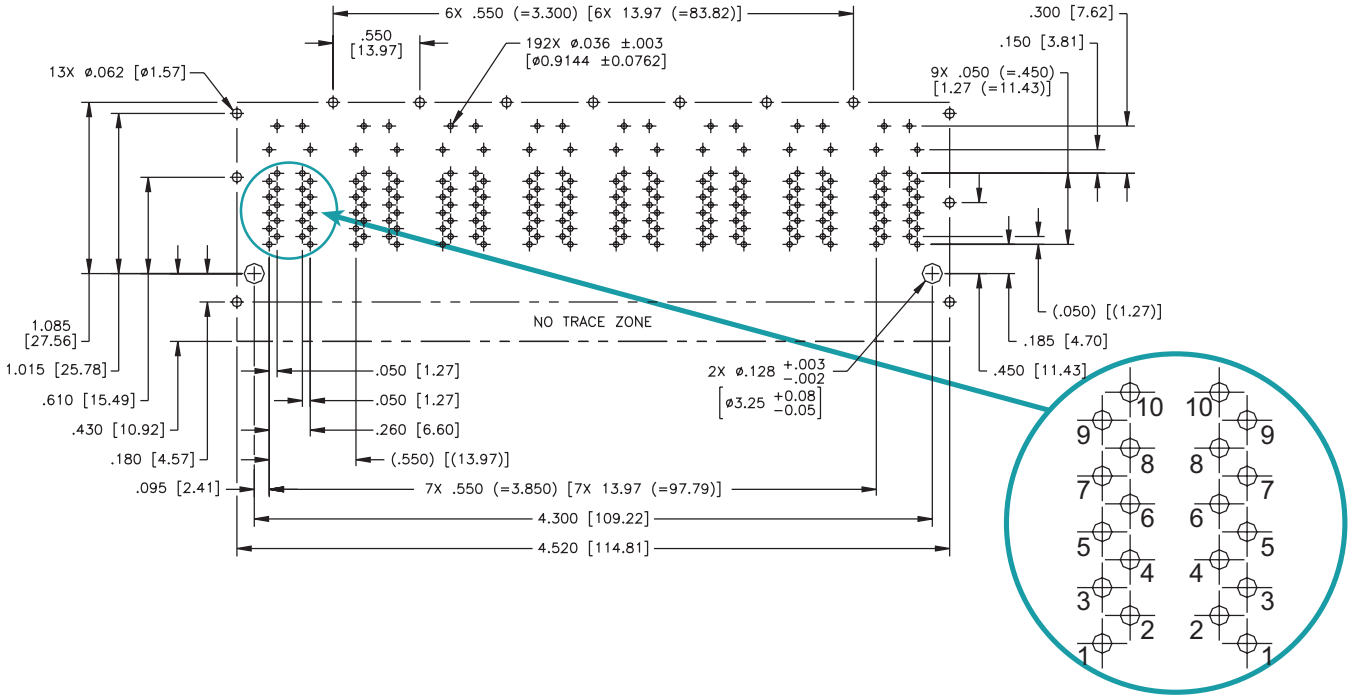


Pin-out Assignment

2X8 Mechanicals (No LEDs)

J0B-0388NL





Pin-out Assignment

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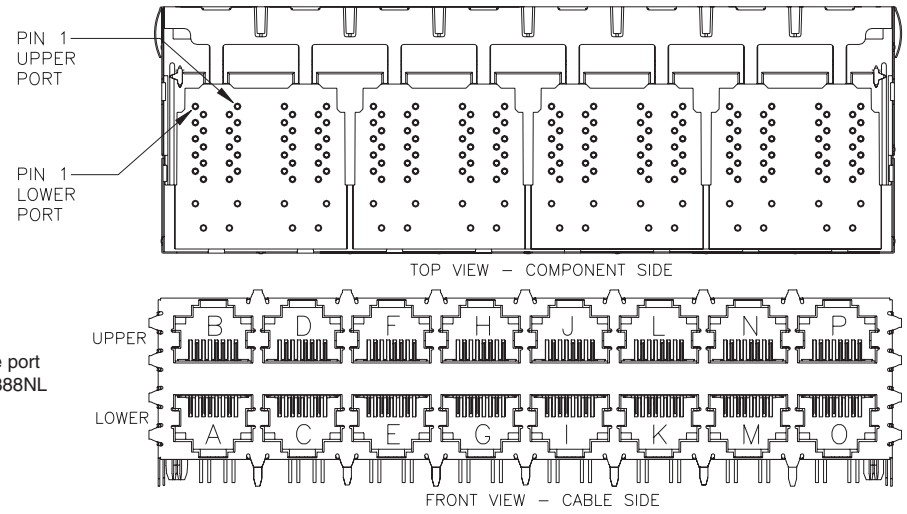
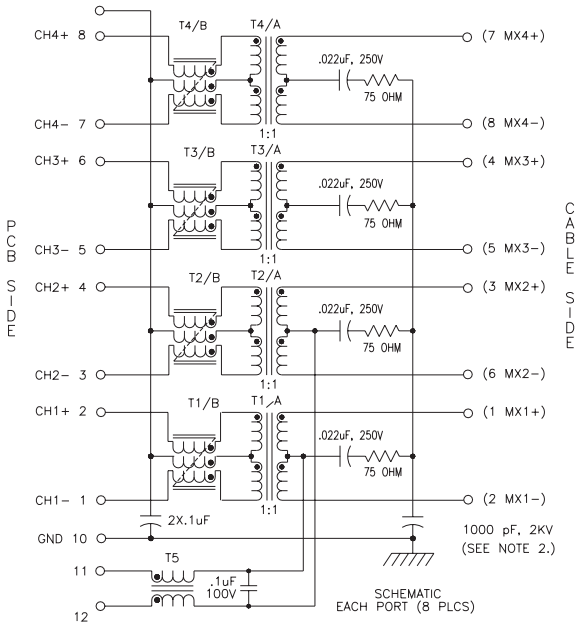
J0B-0384NL/86NL/88NL

Pin-out Assignment



NOTE: All parts use the same port indentification system. J0B-0388NL (2x8) shown here.

Schematic



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