PulseJack™ 1XN, Tab-Up, PoE



Description:

100 Base-TX (Fast Ethernet) RJ45 1xN Integrated Connector Module (ICM) with LEDs - Designed to support PoE applications



Features and Benefits:

RoHS peak wave solder temperature rating 260°C

 Unique design ensures a separation of >2.0mm between Power, Signal and Ground pins.

 Compact design includes integrated magnetics, bi-color LEDs

● 350µH minimum OCL with 8mA bias current

Meets IEEE 802.3 specification

			Elect	rical Specifica	ntions @ 25°C	- Operating T	emperature 0	°C to +70°C				
RoHS Compliant	Number of Ports	LEDs ¹ L/R	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100Ω (± 15 Ω)			Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms MIN)
Part Number			1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-125 MHz	125-500 MHz	@ 60Hz 1 MIN
JG0-0031NL	1x2	Y-G/G	-0.15	-20	-16	-12	-40	-35	-30	-20	-20	1500
JG0-0032NL	1x4											

Notes:

1. LEDs Left/Right: **Y-G** = Bi-color: yellow/green; **G** = green.

		RJ45 Durability Testing Rating		
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
JGO Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.

	RJ45 Material Specification									
Part		Shield		Contact	Housing					
Number	Material	Finish	Material	Plating Area	Solder Area	Material	Specification			
JGO Series	Brass	10-20µ inches thick nickel over 10-20µ inches thick brass	Phosphor Bronze	30µ inches gold over 30-80µ inches nickel	Tin matte finish	Thermoplastic	UL 94 V-0			

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

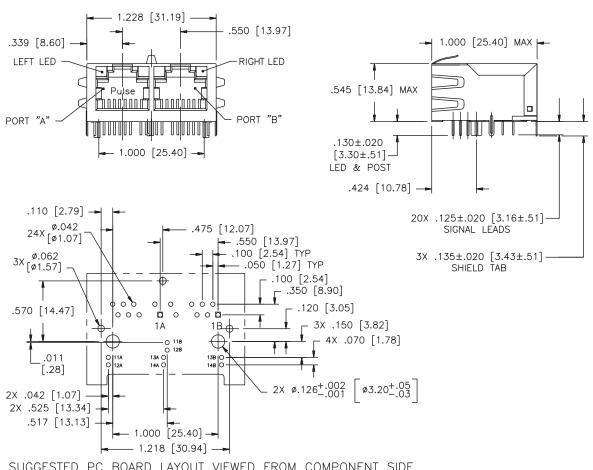
USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

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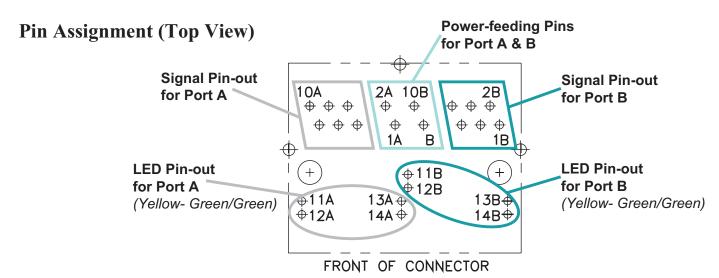


Mechanicals

JG0-0031NL



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE PCB LAYOUT DIMENSIONS TO BE ±.003 UNLESS OTHERWISE SPECIFIED



NOTE: Pins 3A, 4A, 7B and 8B are removed from component to simplify PCB layout and separation of Power, Signal and Ground planes.

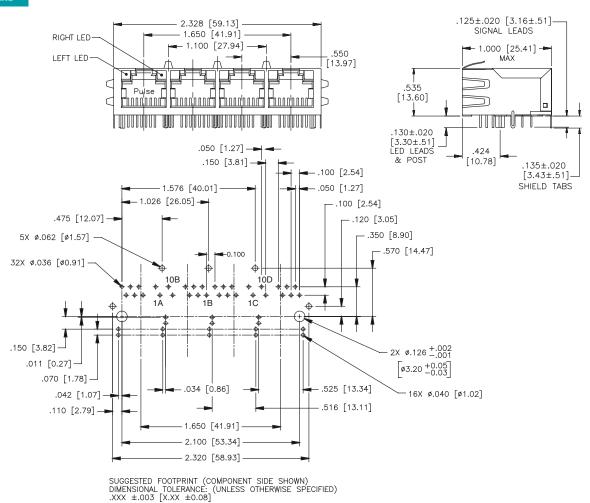
pulseelectronics.com J416.F (08/13)

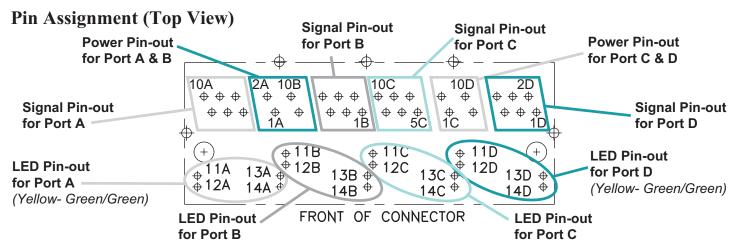
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Mechanicals

JG0-0032NL





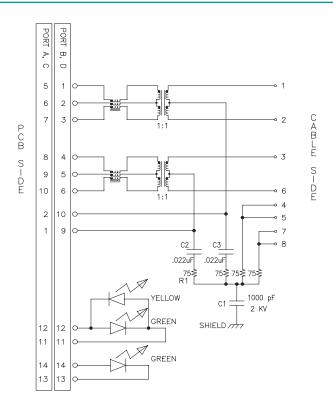
NOTE: Some pins are removed from component to simplify PCB layout and separation of Power, Signal and Ground planes.

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PulseJack™ PowerJack G-UP 10

Schematic

JG0-0031NL/0032NL



LED SPECS (Rating At 25°C Ambient):

COLOR		Peak wave length 1 Pnm	Spectral halfwidth △ λ nm	Forward Voltage @20mA(v)		Luminous intensity @10mA(mcd)		Forward Current (mA)	Power Dissipation (mW)
Emitted	Lens			Min.	Max.	Min.	Тур.	, ,	
Green/	White	565	30	1.7	2.8	3.0	7.0	30	100
Yellow	Diffused	585	35	1.7	2.8	1.2	7.0	20	60
Green	Green Diffused	564~ 574	30	1.7	2.8	5	15	30	84

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