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PulseJack™
Low Profile 1x1 Tab-Up

Description:

100/1000Base-T RJ45 single port (1x1) Tab-UP integrated magnetics connector, designed to support applications such as Network Interface Cards (NIC), LAN-on-Motherboard (LOM), and PC applications.



Features and Benefits:

- *Compliant with IEEE 802.3 standard*
- *350µH minimum OCL with 8mA bias current*
- *High performance for maximum EMI suppression*
- *Low height and small footprint to minimize board space*
- *RoHS peak wave solder temperature rating 260°C*

Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

Part Number	Speed	Side EMI Tabs	Insertion Loss TX/RX (dB)	Return Loss (dB TYP) 100Ω (±15Ω)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)	Hipot (MIN)
			1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	80-100 MHz	1-10 MHz	32-65 MHz	65-100 MHz	1-125 MHz	@ 60Hz 1 MIN
J0G-0001NL	1000Base-T	Horizontal	-1.2	-18	-18	-12	-10	-40	-35	-30	-30	1500Vrms
J0G-0003NL	1000Base-T	No Tabs	-1.0	-18	-18	-12	-10	-40	-35	-30	-30	1500Vrms
J0G-0007NL	100Base-TX	Horizontal	-1.0	-18	-18	-12	-10	-40	-35	-30	-30	1500Vrms
J0G-0009NL	1000Base-T	Vertical	-1.0	-18	-18	-12	-10	-40	-35	-30	-30	1500Vrms

Notes:
1. LEDs Left/Right: **G** = green; **Y** = yellow; **Y-G** = Bicolor.
2. J0G-0003NL is supplied without EMI tabs; refer to mechanical drawing (page 5) for explanation of EMI tabs.

RJ45 Durability Test Rating

Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
J0G 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		MSL [2] Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
J0G Series	Brass	20-40µ inches thick nickel over brass	Phosphor Bronze	15µ inches gold over 30-80µ inches nickel	Tin matte finish over nickel	Thermoplastic	UL 94 V-0	1

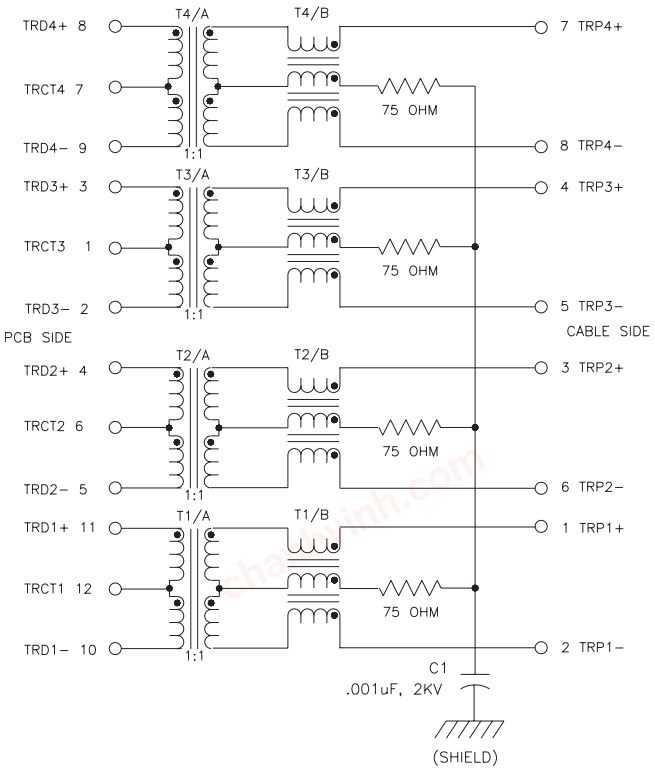
Notes:
1. Connector dimensions comply with FCC dimension requirements.
2. MSL - Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5)

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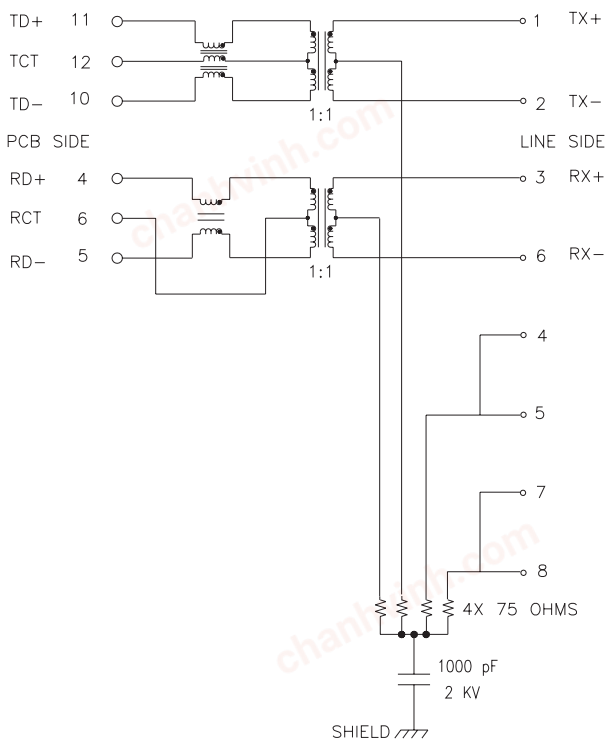
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Schematics

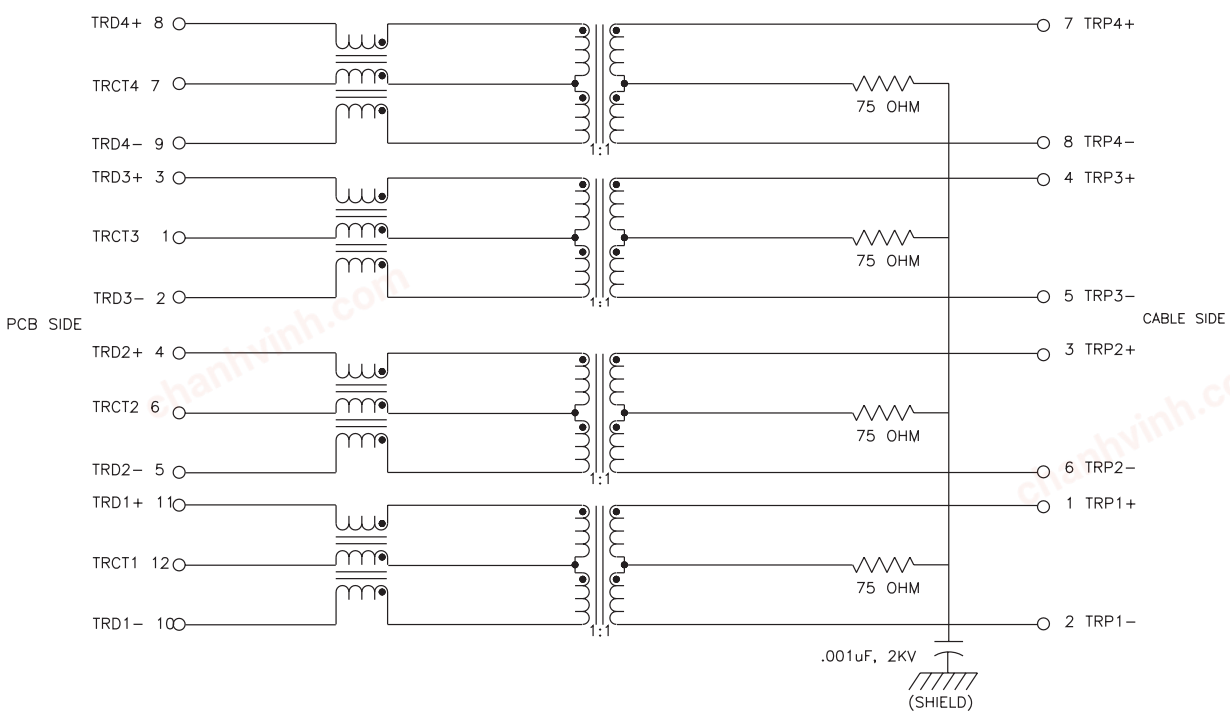
J0G-0001NL / J0G-0003NL



J0G-0007NL



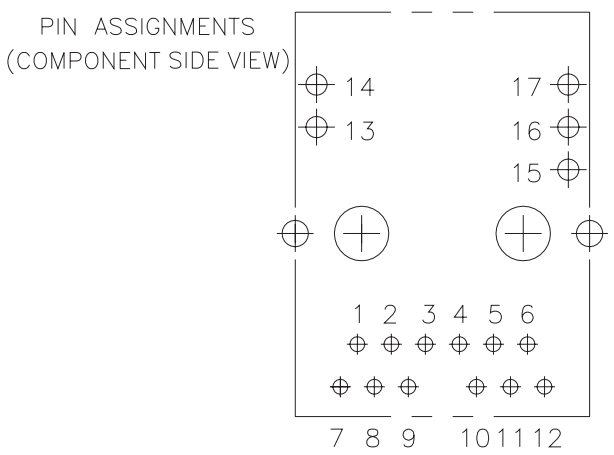
J0G-0009NL



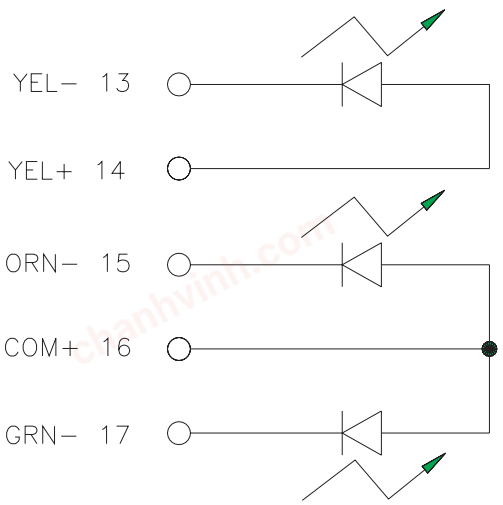
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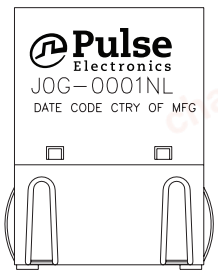
Pin Assignments

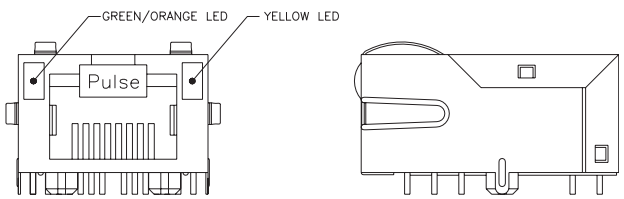


LED Configuration

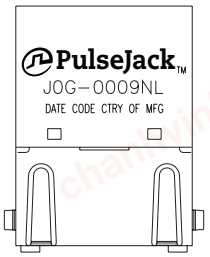


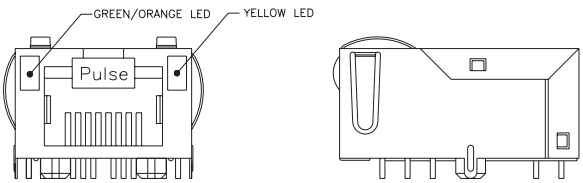
J0G-0001NL



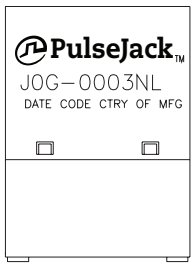


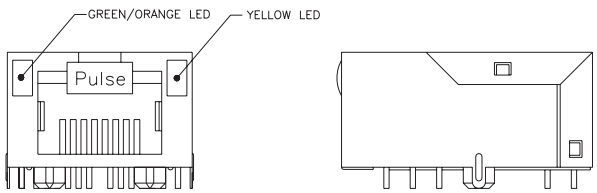
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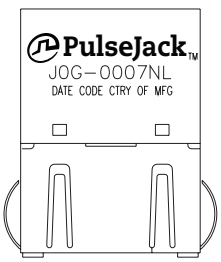


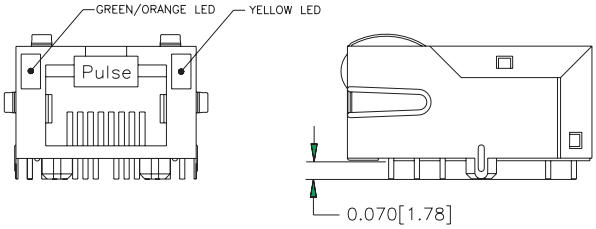
J0G-0003NL





J0G-0007NL



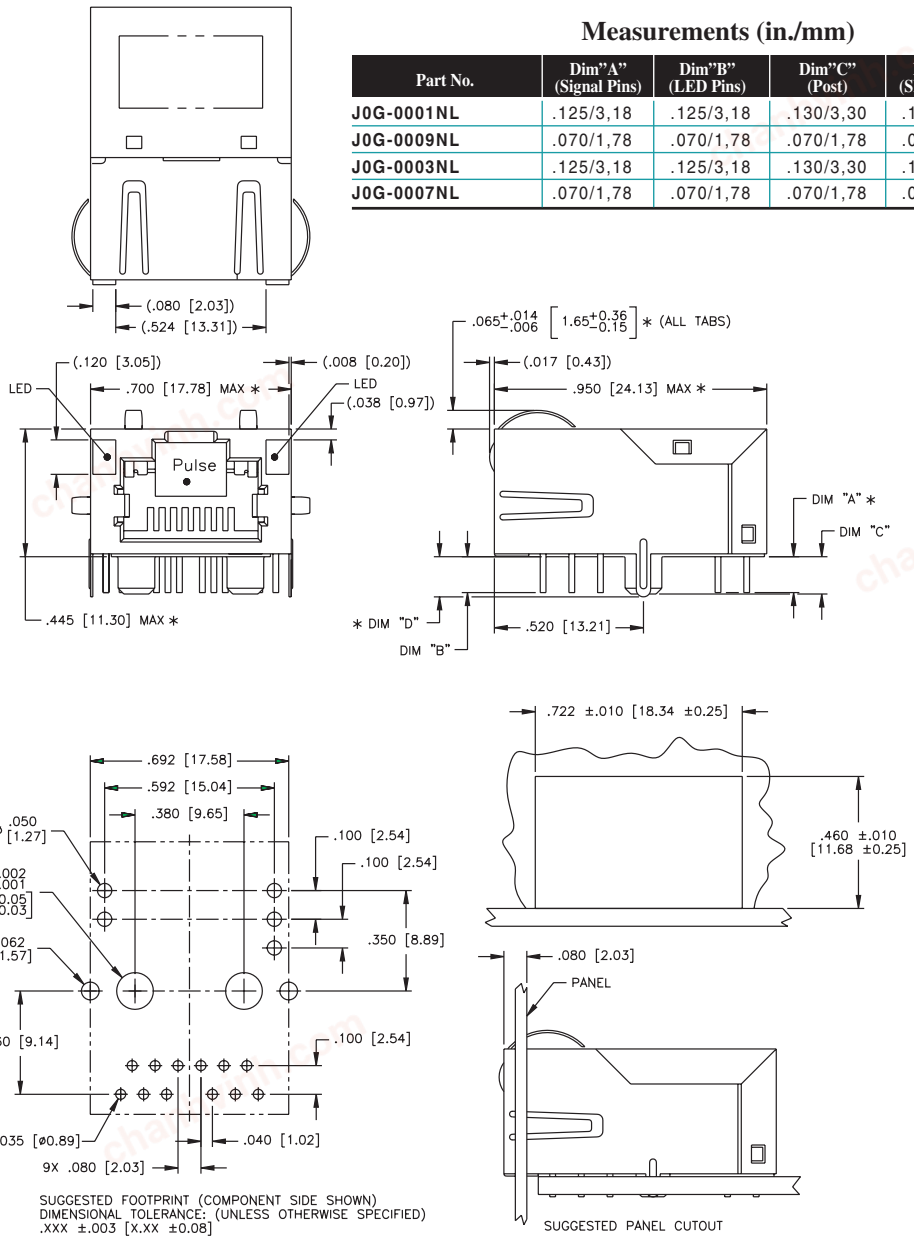


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Mechanicals

J0G-0001NL / 0003NL / 0007NL / 0009NL



Measurements (in./mm)

Part No.	Dim"A" (Signal Pins)	Dim"B" (LED Pins)	Dim"C" (Post)	Dim"D" (Shield Tab)	EMI Tab Config.
J0G-0001NL	.125/3,18	.125/3,18	.130/3,30	.140/3,56	Fig.1
J0G-0009NL	.070/1,78	.070/1,78	.070/1,78	.070/1,78	Fig.2
J0G-0003NL	.125/3,18	.125/3,18	.130/3,30	.140/3,56	Fig.3
J0G-0007NL	.070/1,78	.070/1,78	.070/1,78	.070/1,78	Fig.1

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EMI Tabs Configuration

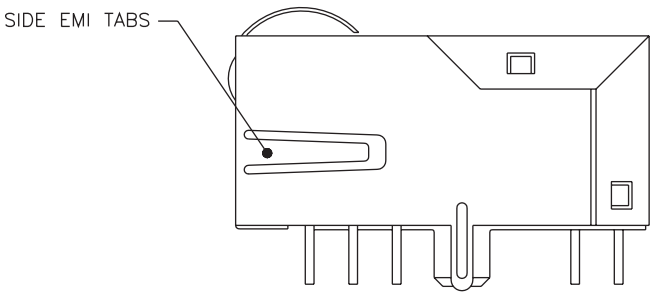


FIGURE 1 (HORIZONTAL SIDE EMI TABS)

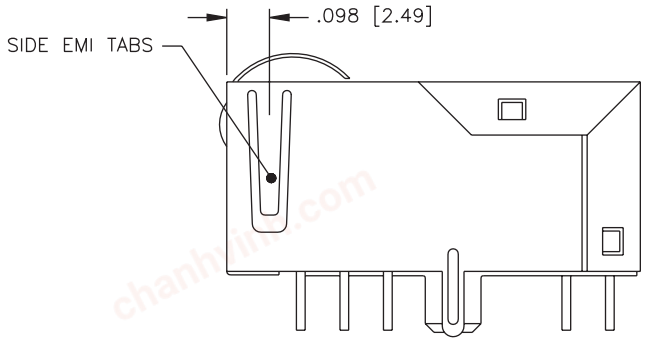


FIGURE 2 (VERTICAL SIDE EMI TABS)

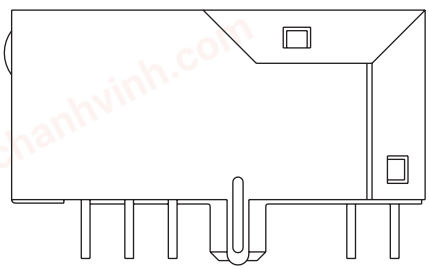


FIGURE 3 (NO EMI TABS)

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