Industrial 1Gigabit Top Entry single port



Description:

Industrial Gigabit (10/100/1000Base-T) single port RJ45 vertical/ top entry integrated magnetics connector, designed to support applications, such as embedded automation and drive control, wall and panel mount HMI and outdoor networks.





- © Exceeds IEEE 802.3au specification for 1000Base-T
- @ 350µH minimum OCL with 8mA bias current
- ® Rugged Industrial Temperature range -40 to+85°C
- Fully conforms to RoSH-6 without exemptions
- @ Replaces JD3/JXD3-0002NL and JD3/JXD3-0001NL

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C ³													
Part Number	LEDs ¹	Speed	EMI Tabs	Insertion Loss max (dB)	Return Loss (dB MIN) 100Ω ($\pm 15\Omega$)			Cross Talk (dB TYP)			Common Mode Rejection (dB TYP)	Hipot (MIN)	
				1-125 MHZ	1-40 MHz	40-60 MHz	60-80 MHz	80-100 MHz	1-10 MHz	32-65 MHz	65-100 MHz	1-100 MHz	60 Secs
JXD3-0Z02NL	Y/G	10/100/1000BT	N/A	-1.2	-16	-12	-10	-8	-40	-35	-30	-30	2250VDC

Notes: 1. LEDs Left/Right G = green, Y = yellow

		RJ45 Durability Testing Rating			
Part Number Mating Force (MAX)		Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)	
JXD3 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
	Material	Finish	Material	Material Plating Area Solder Area		Material	Specification	Rating
JXD3 Series	Copper Alloy	$30\text{-}50\mu$ inches thick nickel	Phosphor Bronze	30μ inches gold over 50μ 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

3. Storage Temperature ; -40 to +85°C

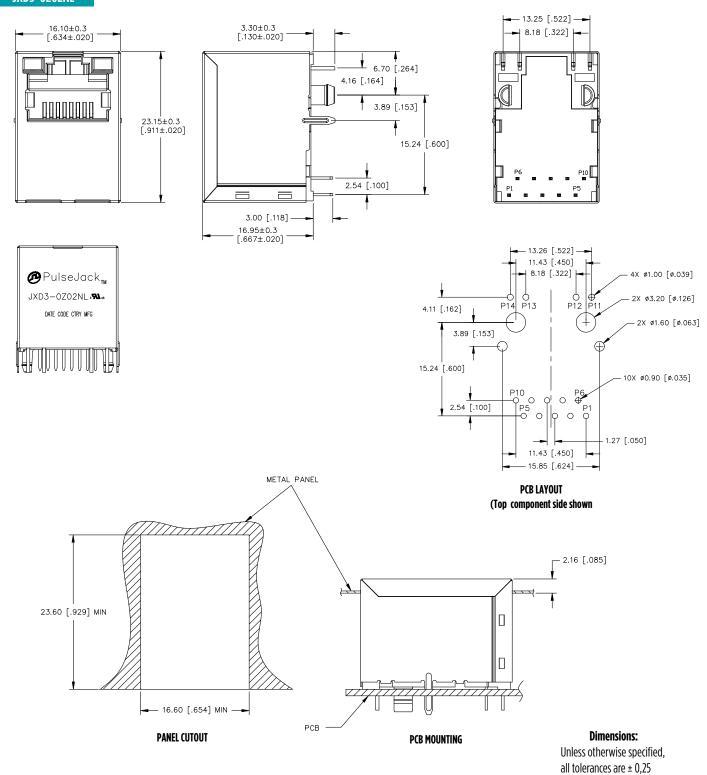
PulseElectronics.com J50X.A (06/22)



MECHANICALS

JXD3-0Z02NL

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PulseElectronics.com J50X.A (06/22)

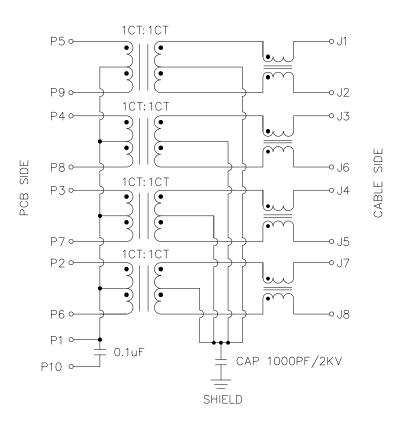
PulseJack™

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SCHEMATICS

JXD3-0Z02NL



JXD3-0Z02NL LED's





EMITTED COLOR	GREEN	YELLOW		
WAVELENGTH (nM)	570	590		
POWER DISSIPATION (Pd)	105 mW MAX	105 mW MAX		
DC FORWARD CURRENT	20 mA MAX	20 mA MAX		
Ir @ Vr = 5V	10uA Max	10uA Max		
FOWARD VOLTAGE (VF) @ 20 mA	1.8 ~2.4V	2.1V TYP		

Note: Per Vendor Specification

For More Information:

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