

## 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<sup>1</sup>

### Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	LEDs <sup>2</sup>	Speed	EMI Tabs	Insertion Loss TX/RX (dB)	Return Loss (dB MIN) 100.Ω (±15Ω)				Cross Talk (dB TYP)			Common Mode Rejection (dB TYP)	Hipot (MIN)
				1-125MHz	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. If LED pins are removed  
2. 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.

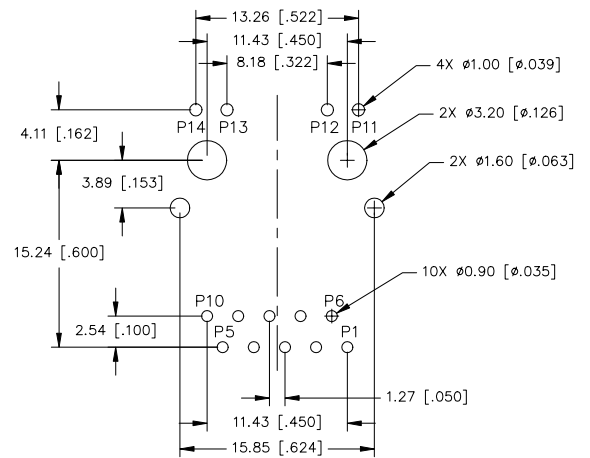
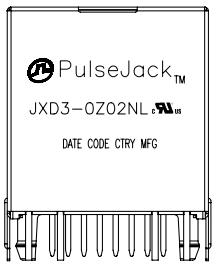
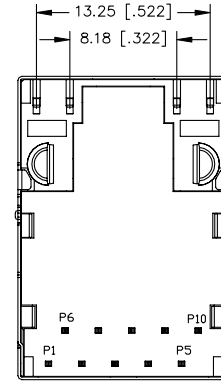
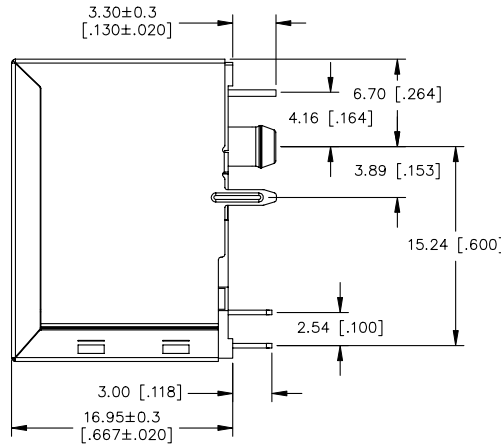
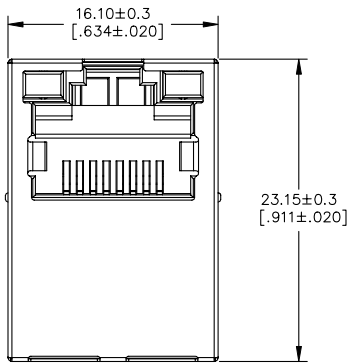
### RJ45 Material Specification

Part Number	Shield		Contact			Housing		MSL <sup>2</sup> Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
JXD3 Series	Copper Alloy	30-50µ inches thick nickel	Phosphor Bronze	30µ inches gold over 50µ inches nickel	Tin matte finish over nickel	Thermoplastic	UL 94 V-0	1

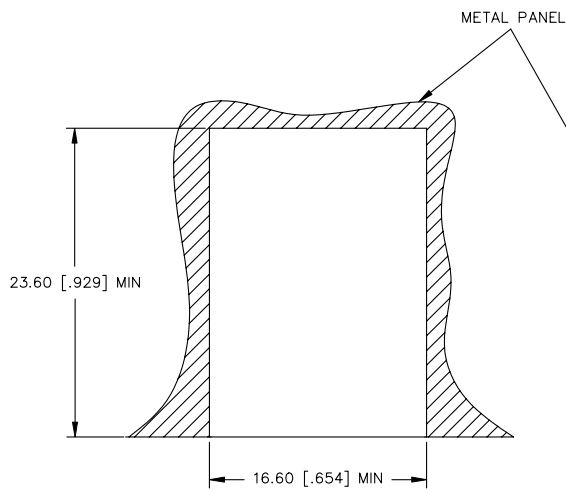
Notes: 1. Connector dimensions comply with FCC dimension requirements.  
2. MSL - Moisture Sensitivity Level  
3. Storage Temperature ; -40 to +85°C

**MECHANICALS**

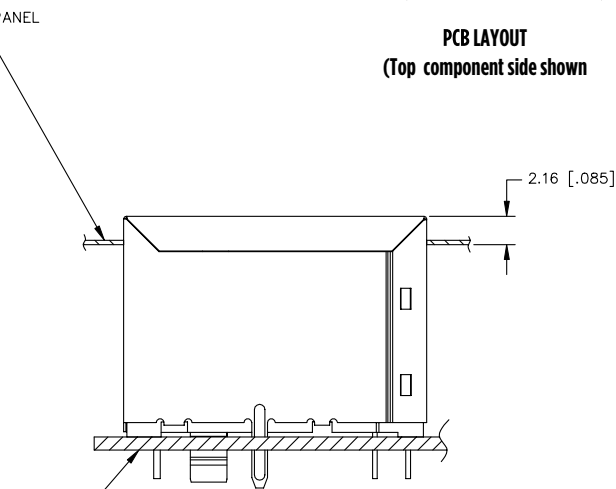
JXD3-0Z02NL



**PCB LAYOUT**  
(Top component side shown)



**PANEL CUTOUT**

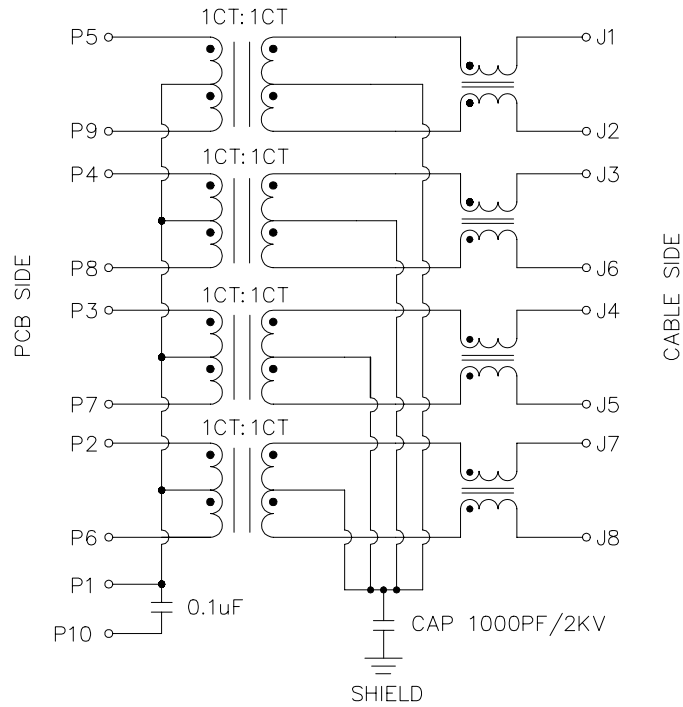


**PCB MOUNTING**

**Dimensions:**  
Unless otherwise specified,  
all tolerances are ± 0,25

## 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
FORWARD VOLTAGE (VF) @ 20 mA	1.8 -2.4V	2.1V TYP

Note: Per Vendor Specification

### For More Information:

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