

100 Base-TX RJ45 1X1 Tab-Up 8 pin Integrated Magnetics Connector, designed for industrial rated applications and is suitable for reflow solder mounting.





#### **Features and Benefits:**

- High Temperature rated parts designed for use in Pin-in-Paste processing with 260°C max reflow temperature
- Meets IEEE802.3 specification
- 350µH minimum OCL with 8mA DC bias current
- Extended Temperature range from -40°C to 85°C

Electrical Specifications @ 25°C – Operating Temperature -40°C to +85°C												
			Insertion Loss	<b>Return Loss</b> (dB TYP)			<b>CCMR</b> (dB TYP)		<b>Crosstalk</b> (db TYP)			Hipot
Part Number <sup>1</sup>	EMI Fingers	<b>LED</b> (L/R)	1 - 65MHz (dB TYP)	1 - 10 MHz	30 MHz	60 - 80 MHz	1 - 50 MHz	50 - 130 MHz	1 - 10 MHz	30 - 60 MHz	60 - 100 MHz	(Vrms)
JXR1-0001NL	YES	-	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR1-0005NL	NO	-	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR1-0011NL	YES	G/Y	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR1-0015NL	NO	G/Y	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500

#### Notes:

- 1. When ordering JXRO-0011NL supplied in **Tape and Reel**, please add a "**T**" on the end of the part code e.g. JXR1-0011NL becomes JXR1-0011NLT.
- 2. Maximum Reflow Solder Temperature: 2x SRP 260°C for 5 seconds with LEDs and 2x SRP 260°C for 10 seconds without LEDs

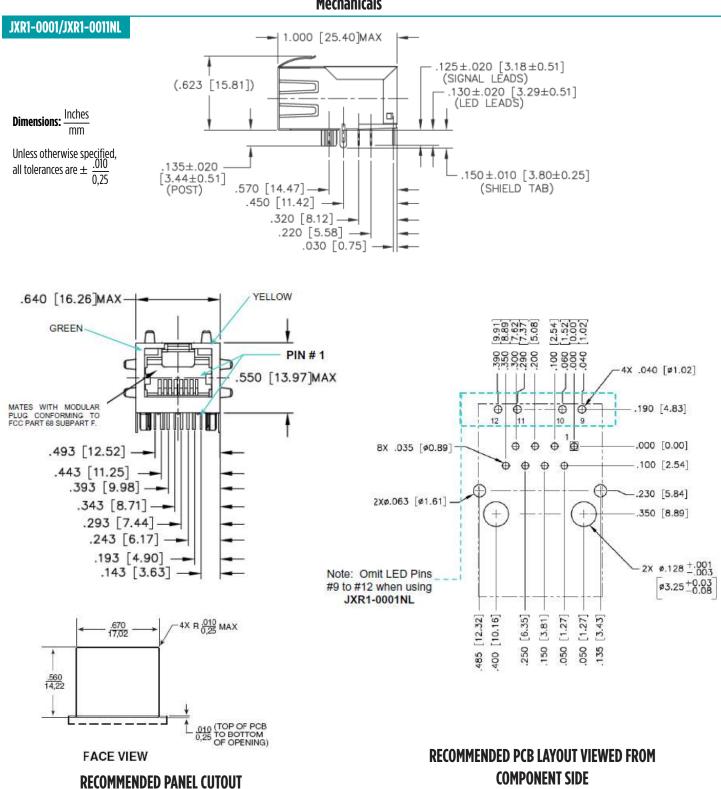
RJ45 Durability Testing Rating							
Part Number	<b>Mating Force</b> (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)			
JXR1 - Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.			

RJ45 Material Specification								
	Shield			Contact	Housing		MSL <sup>2</sup>	
Part Number	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	Rating
		10-20m inches Nickel over	Phosphor	Nickel underplating and	Matte Tin finish			
JXR1 – Series	Brass	10-20m inches Brass	Bronze	selective gold plating $30\mu$ inches	over Nickel	Thermoplastic	UL 94 V-0	3

**Notes: 1. Connector** dimensions comply with FCC dimension requirements. **2. MSL** = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

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#### **Mechanicals**



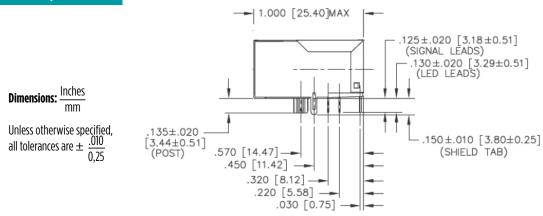
## **COMPONENT SIDE**

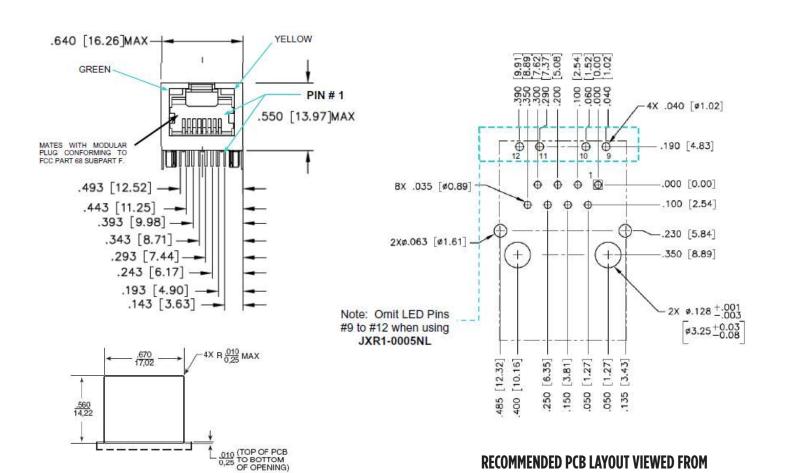
PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND ±.003 UNLESS OTHERWISE SPECIFIED

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**Mechanicals** (continued)

#### JXR1-0005/JXR1-0015NL





### **RECOMMENDED PANEL CUTOUT**

COMPONENT SIDE

PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND

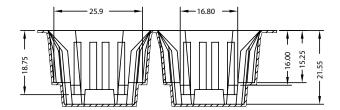
±.003 UNLESS OTHERWISE SPECIFIED

**FACE VIEW** 

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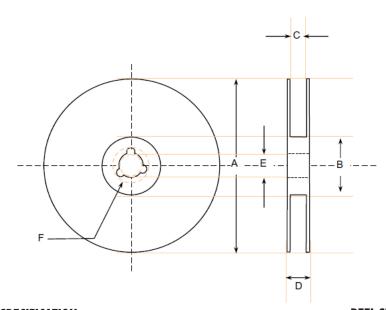
### **Tape and Reel Specification**

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**USER DIRECTION OF FEED** 

 $\label{eq:Dimensions:} \mbox{given in mm} \\ \mbox{Unless otherwise specified, all tolerances are } \pm 0.15$ 



### **PACKING SPECIFICATION:**

JXR1-00xxNLT = TAPE and REEL	80 parts/reel
JXR1-00x1NL = TUBE	25 parts
IXR1-00x5NI = TIIRF	30 narts

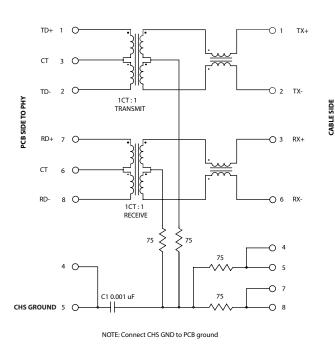
### **REEL SPECIFICATION in mm**

 $A = \emptyset \ 360.0 \ \pm / -2.0$   $C = \emptyset \ 45.4 \ \pm / -1.0$   $C = \emptyset \ 13.1 \ \pm / -0.3$   $C = \emptyset \ 100.0 \ \pm / -0.5$   $C = \emptyset \ 50.4 \ \pm / -1.0$   $C = \emptyset \ 100.0 \ \pm / -0.5$ 

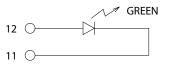
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### **Electrical Schematic**

### **LED Specification**



9 YELLOW
10 O



Emmitted Color	Green	Yellow	
Wavelength (nm)	585 nm	2.1 V	
Brightness (mCD)	8 to 12 TYP.	8 to 12 TYP.	
brightness (IIICD)	@ 20mA	@ 20 mA	
Viewing Angle	100°	100°	
Power Dissipation (Pd)	68 mW MAX	68 mW MAX	
DC Forward Current	25 ma Max	30 mA MAX	
Reverse Voltage (Vr)	5.0 V MAX	5.0 V MAX	

#### For More Information:

Americas - prodinfonetworkamericas@pulseelectronics.com | Europe - comms-Apps-Europe@pulseelectronics.com | Asia - prodinfonetworkapac@pulseelectronics.com | Asia - prodinfonetworkapac@pulseelectronics.com |

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