

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	Return Loss (dB TYP)		CCMR (dB TYP)		Crosstalk (db TYP)			Hipot	
Part Number ¹	EMI Fingers	LED (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

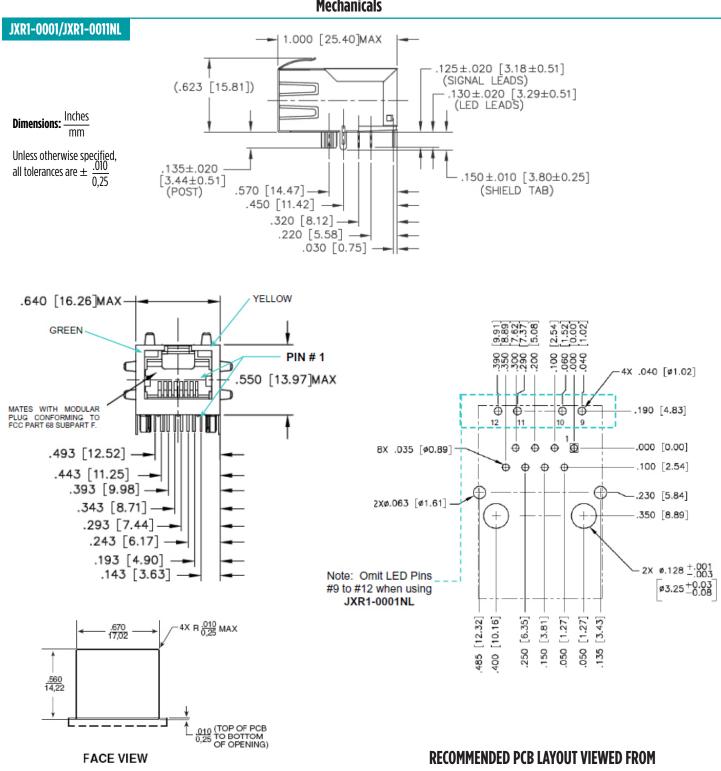
RJ45 Durability Testing Rating						
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)		
JXR1 - Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.		

RJ45 Material Specification								
		Shield		Contact	Housing		MSL ²	
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 30µ 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

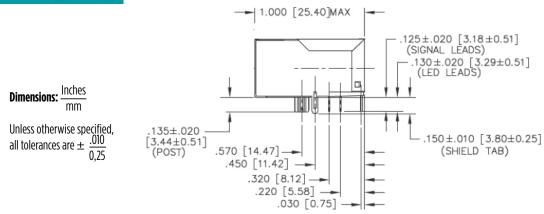
PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND ±.003 UNLESS OTHERWISE SPECIFIED

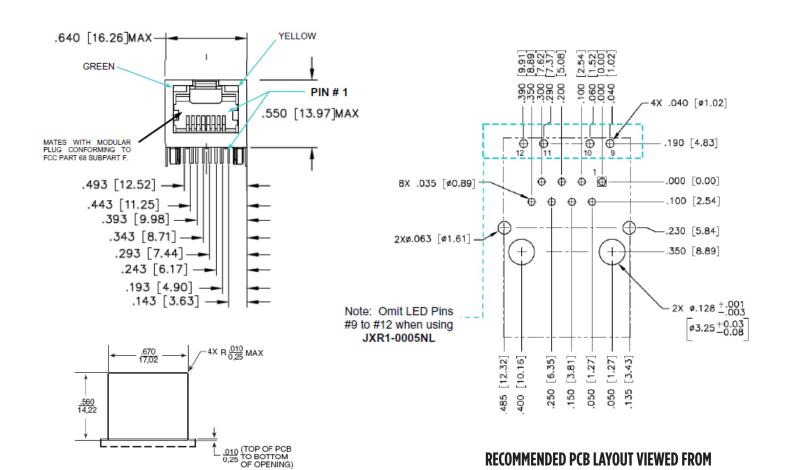
RECOMMENDED PANEL CUTOUT

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

Mechanicals (continued)

JXR1-0005/JXR1-0015NL





RECOMMENDED PANEL CUTOUT

COMPONENT SIDE

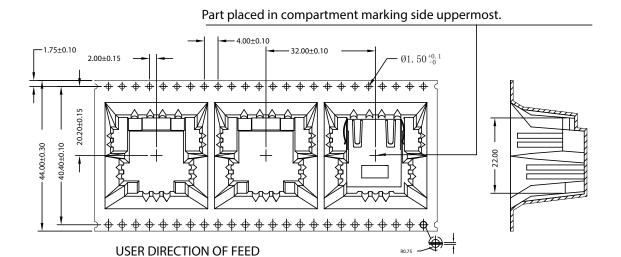
PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND

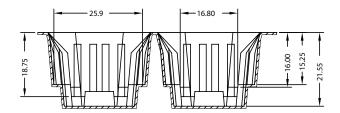
±.003 UNLESS OTHERWISE SPECIFIED

FACE VIEW

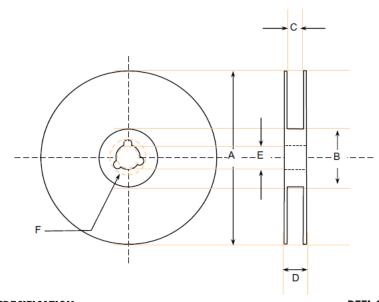
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Tape and Reel Specification





 $\label{eq:Dimensions:} \begin{picture}(2000) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100}}$



PACKING SPECIFICATION:

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

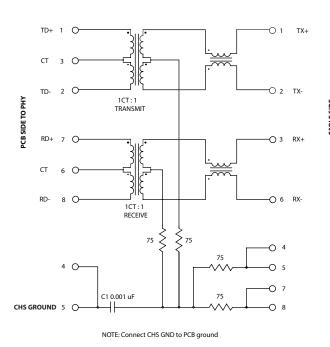
REEL SPECIFICATION in mm

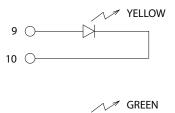
 $A = \emptyset \ 360.0 \ \pm / -2.0$ $C = \emptyset \ 45.4 \ \pm / -1.0$ $C = \emptyset \ 13.1 \ \pm / -0.3$ $C = \emptyset \ 100.0 \ \pm / -0.5$ $C = \emptyset \ 50.4 \ \pm / -1.0$ $C = \emptyset \ 100.0 \ \pm / -0.5$

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Electrical Schematic

LED Specification





Emmitted Color	Green	Yellow	
Wavelength (nm)	585 nm	2.1 V	
Brightness (mCD)	8 to 12 TYP.	8 to 12 TYP.	
Drigituless (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:

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 $\frac{JXR1-0011NL}{0001NLT} \ \underline{JXR1-0015NL} \ \underline{JXR0-0001NL} \ \underline{JXR1-0011NLT} \ \underline{JXR1-0005NLT} \ \underline{JXR1-0015NLT} \ \underline{JXR1-0001NL} \ \underline{JXR1-0001NL}$