PulseJack™
1X1 Tab-Down RJ45

100 Base-TX RJ45 1X1 Tab-Down 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 @ 25ºC - Operating Temperature -40ºC to +85ºC

Part Number[1]	EMI Fingers	LED (L/R)	Insertion Loss 1 - 65MHz (dB TYP)	Return Loss (dB TYP)			CCMR (dB TYP)		Crosstalk (db TYP)			Hipot (Vrms)
				1 - 10 MHz	30 MHz	60 - 80 MHz	1 - 50 MHz	50 - 130 MHz	1 - 10 MHz	30 - 60 MHz	60 - 100 MHz	
JXR0-0001NL	YES	-	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR0-0005NL	NO	-	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR0-0011NL	YES	G/Y	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500
JXR0-0015NL	NO	G/Y	-1.0	-20	-16	-10	-30	-20	-40	-35	-30	1500

Notes:

1. When ordering JXR0-0011NL supplied in **Tape and Reel**, please add a "**T**" on the end of the part code - e.g. JXR0-0011NL becomes JXR0-0011NL**T**.
2. Maximum Reflow Solder Temperature: 2x SRP 260˚C for 5 seconds with LEDs and 2x SRP 260˚C for 10 seconds

RJ45 Durability Testing Rating

Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
JXR0 - 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	Plating Area	Solder Area	Material	Specification	Rating
JXR0 - Series	Brass	10-20m inches Nickel over 10-20m inches Brass	Phosphor Bronze	Nickel underplating and selective gold plating 30µ inches	Matte Tin finish oyer Nickel	Thermoplastic	UL 94 V-0	1

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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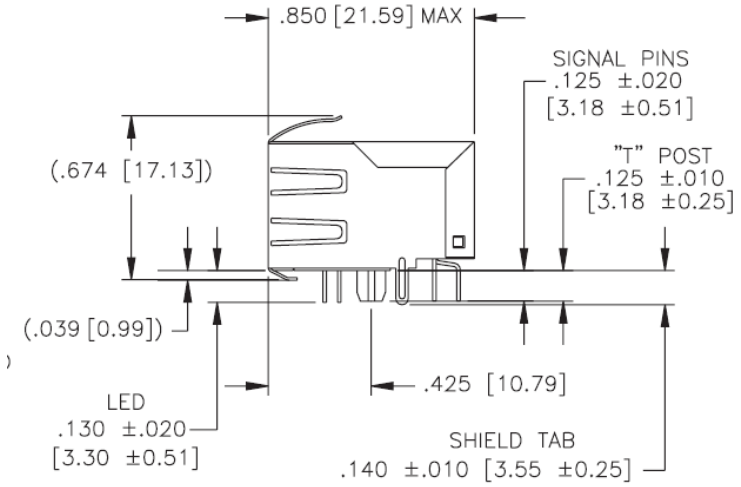
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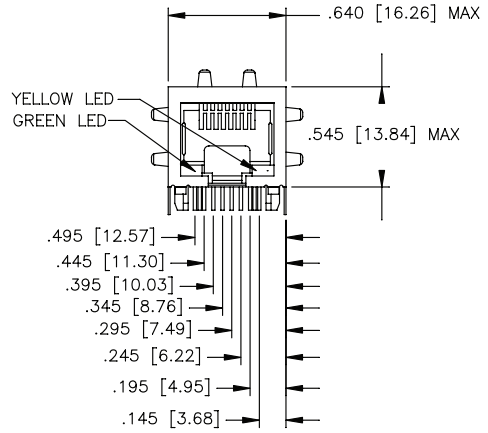
Mechanicals

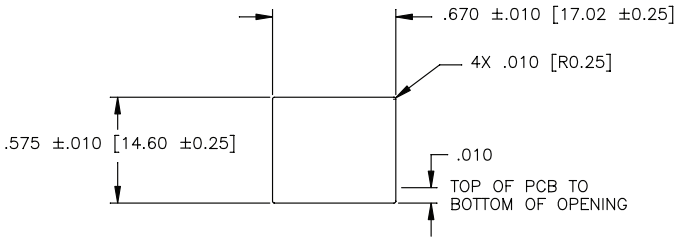
JXR0-0001/JXR0-0011NL

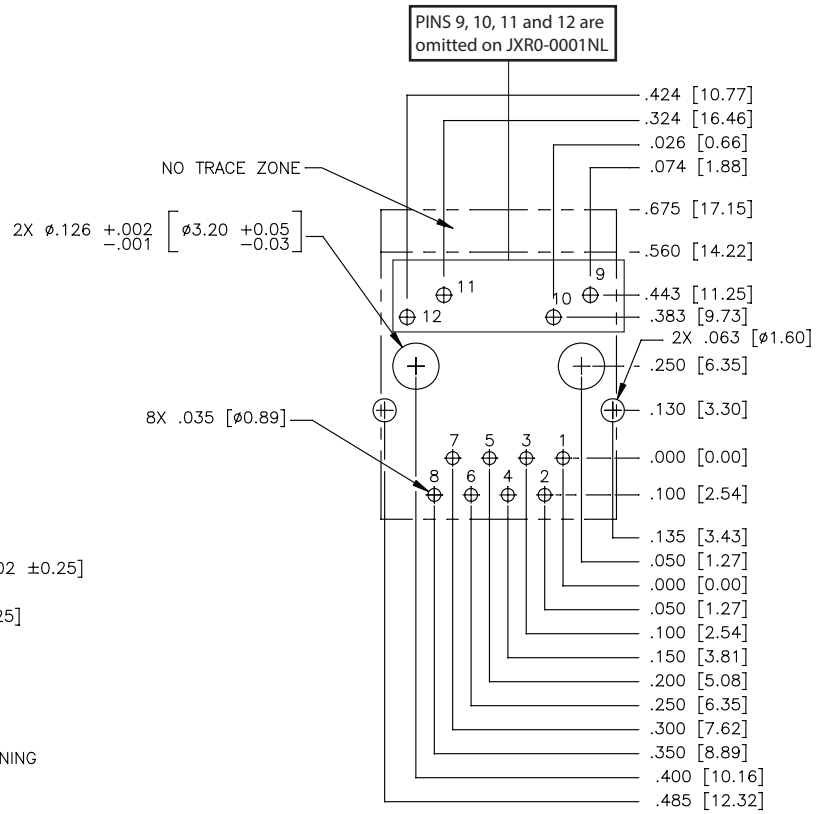
Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25









RECOMMENDED PANEL CUTOUT

RECOMMENDED PCB LAYOUT VIEWED FROM COMPONENT SIDE

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

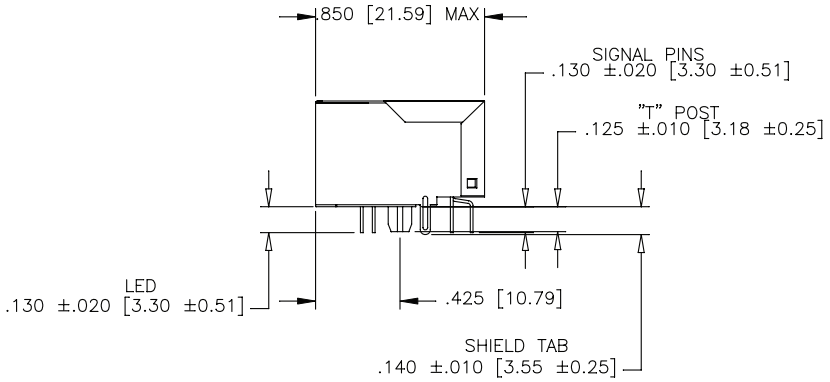
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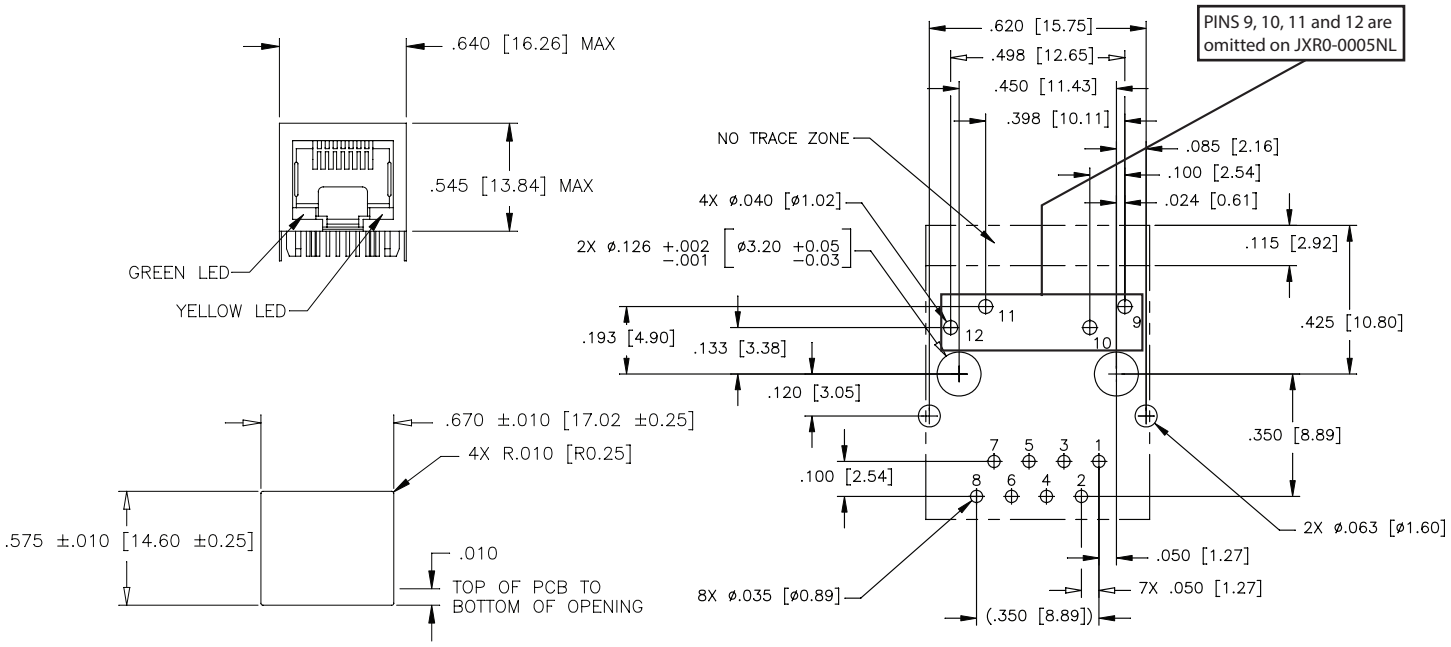
Mechanicals *(continued)*

JXR0-0005NL/JXR0-0015NL

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25





RECOMMENDED PANEL CUTOUT

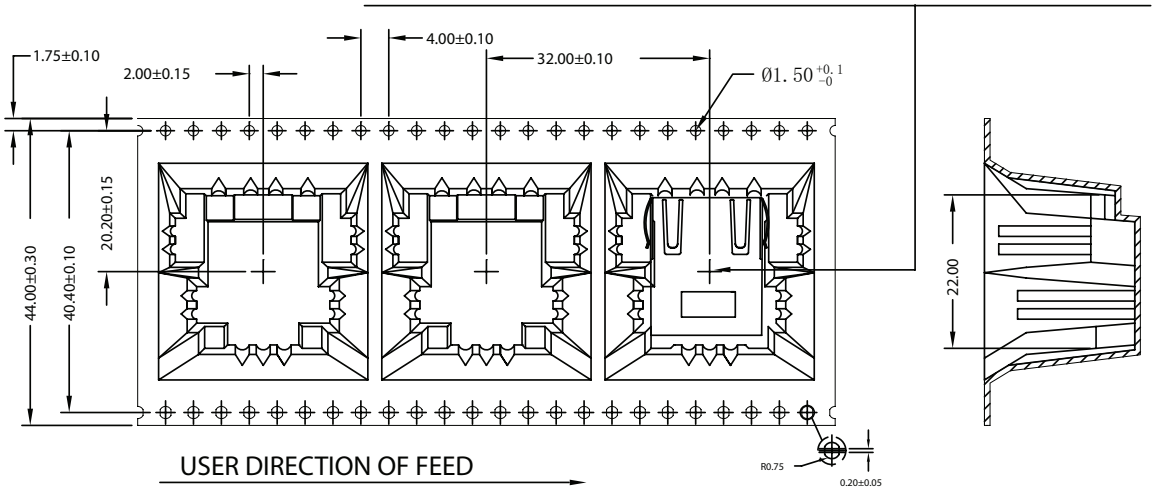
RECOMMENDED PCB LAYOUT VIEWED FROM COMPONENT SIDE

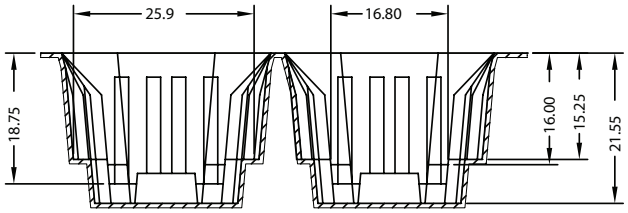
PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND ±.003 UNLESS OTHERWISE SPECIFIED

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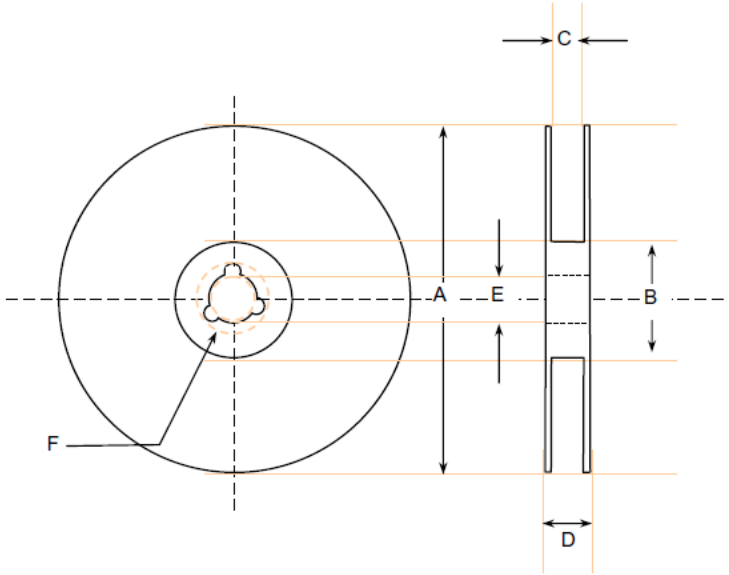
Tape and Reel Specification

Part placed in compartment marking side uppermost.





Dimensions: given in mm
Unless otherwise specified, all tolerances are ±0.15



PACKING SPECIFICATION:

JXR0-00xxNLT = TAPE and REEL .....80 parts/reel
JXR0-00xxNL = TUBE .....25 parts
JXR0-00x5NL = TUBE .....30 parts

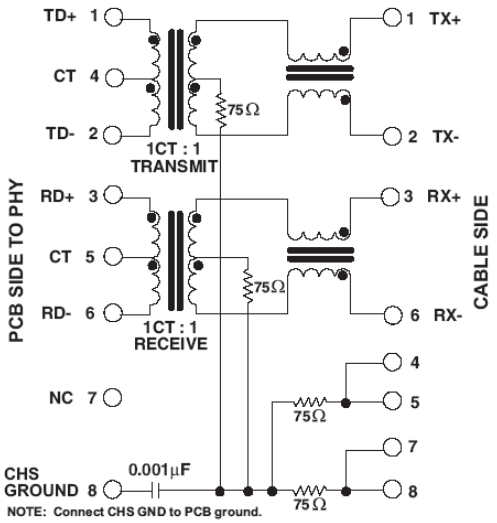
REEL SPECIFICATION in mm

A = Ø 360.0 ±/-2.0	C = Ø 45.4 ±/-1.0	C = Ø 13.1 ±/-0.3
B = Ø 100.0 ±/-0.5	D = Ø 50.4 ±/-1.0	D = Ø 21.0 ±/-0.5

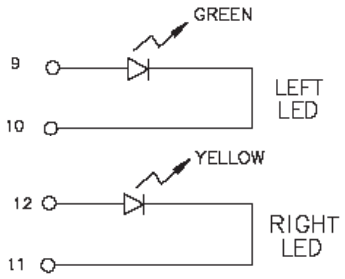
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Electrical Schematic



LED Specification



Standard LED	Wavelength	Forward* V(MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 V
Green	565 nm	2.5 V	2.2 V

* Assumes bias current = 20mA

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