PulseJack™
1X1 Tab-Up RJ45

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

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	
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 JXR0-0011NL supplied in **Tape and Reel**, please add a "**T**" on the end of the part code - e.g. JXR1-0011NL becomes JXR1-0011NL**T**.
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

Part Number	Shield		Contact			Housing		MSL[2]
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	Rating
JXR1 - Series	Brass	10-20m inches Nickel over 10-20m inches Brass	Phosphor Bronze	Nickel underplating and selective gold plating 30µ inches	Matte Tin finish 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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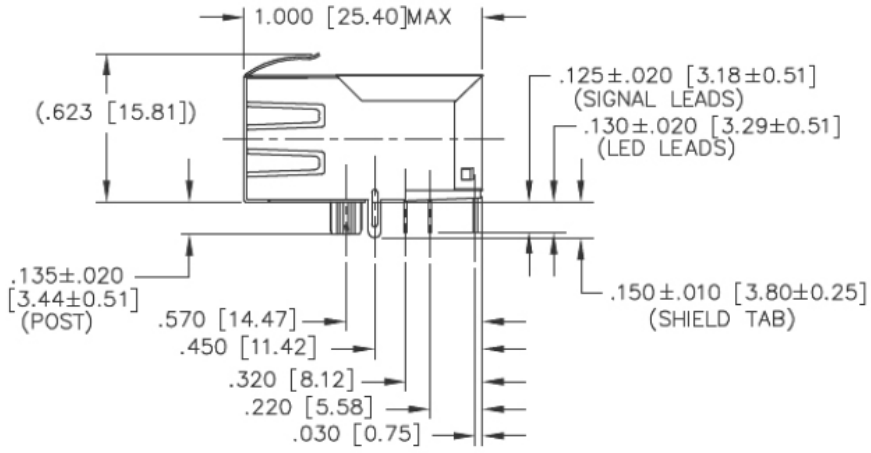
100 Base-TX RJ45 1X1 Tab-Up 8 pin Integrated Magnetics Connector, designed for industrial rated applications and is suitable for reflow solder mounting.

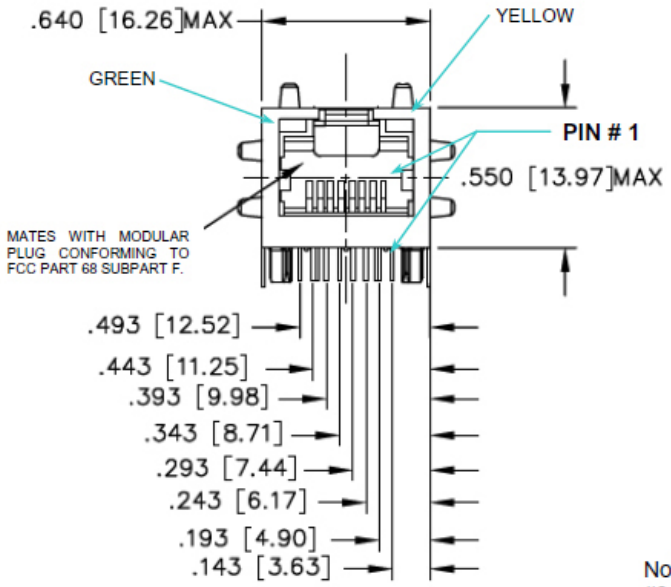
Mechanicals

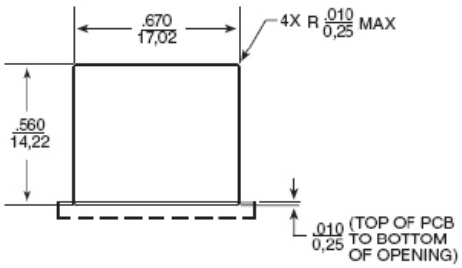
JXR1-0001/JXR1-0011NL

Dimensions: Inches / mm

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

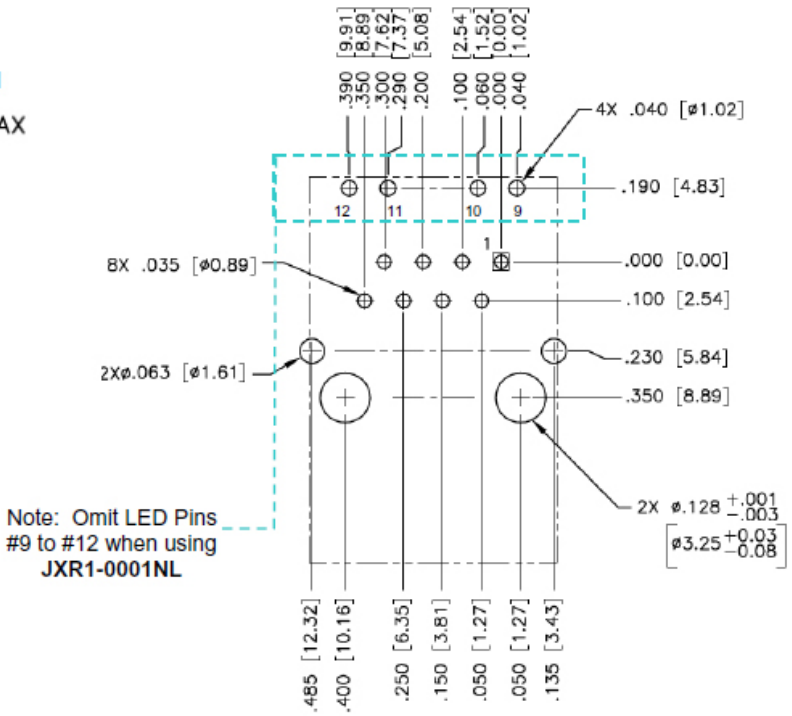






FACE VIEW

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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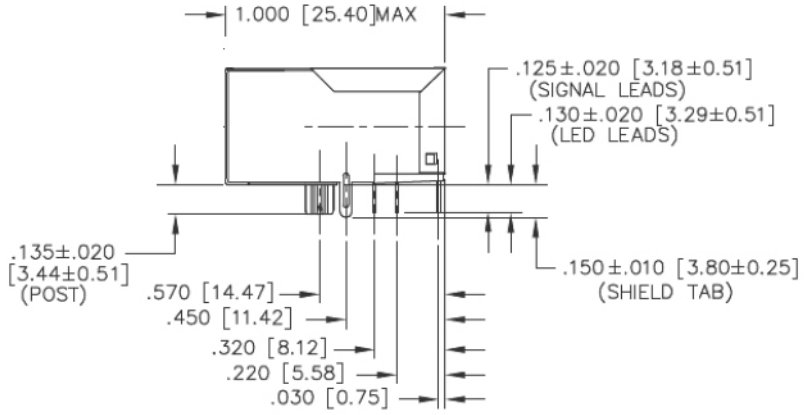
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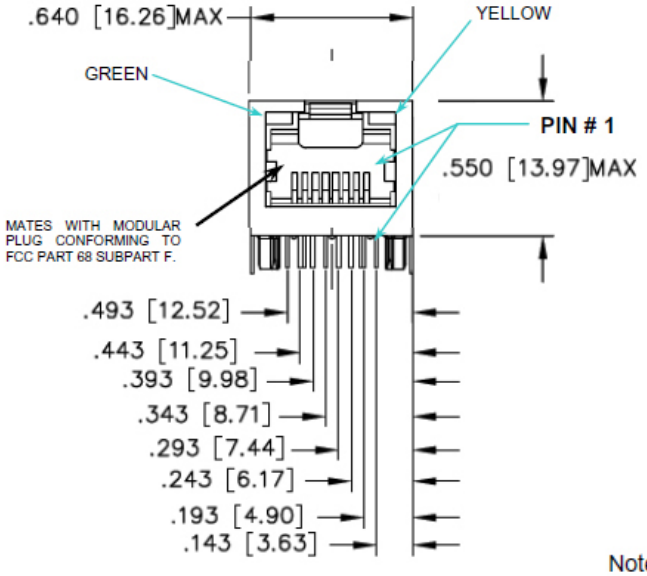
Mechanicals *(continued)*

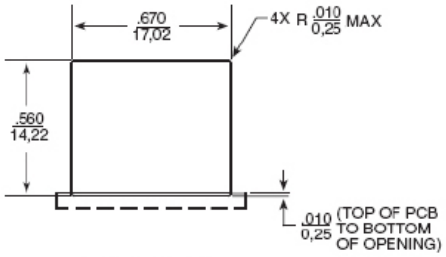
JXR1-0005/JXR1-0015NL

Dimensions: Inches / mm

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

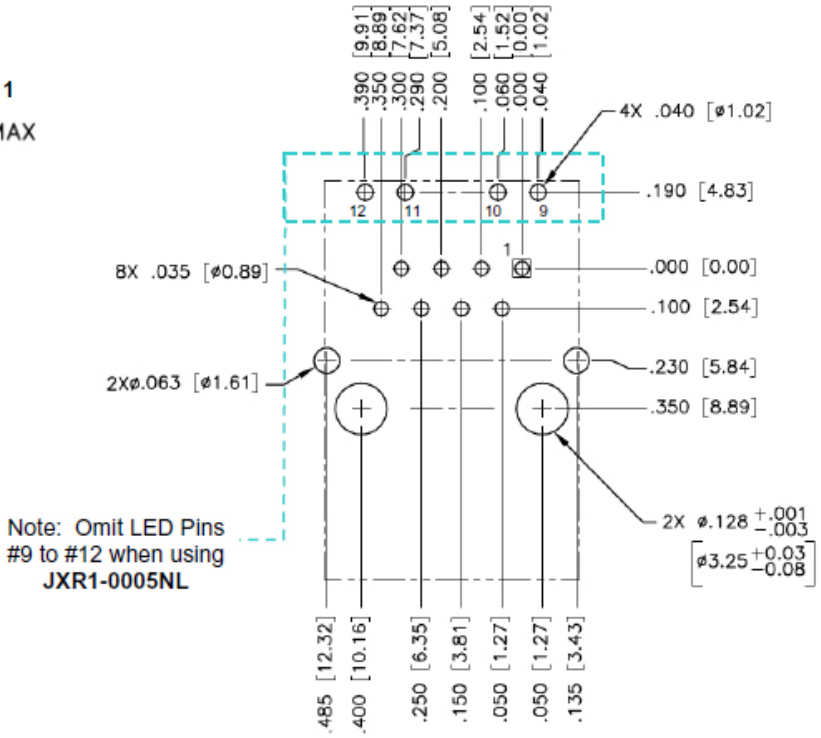






FACE VIEW

RECOMMENDED PANEL CUTOUT



Note: Omit LED Pins #9 to #12 when using **JXR1-0005NL**

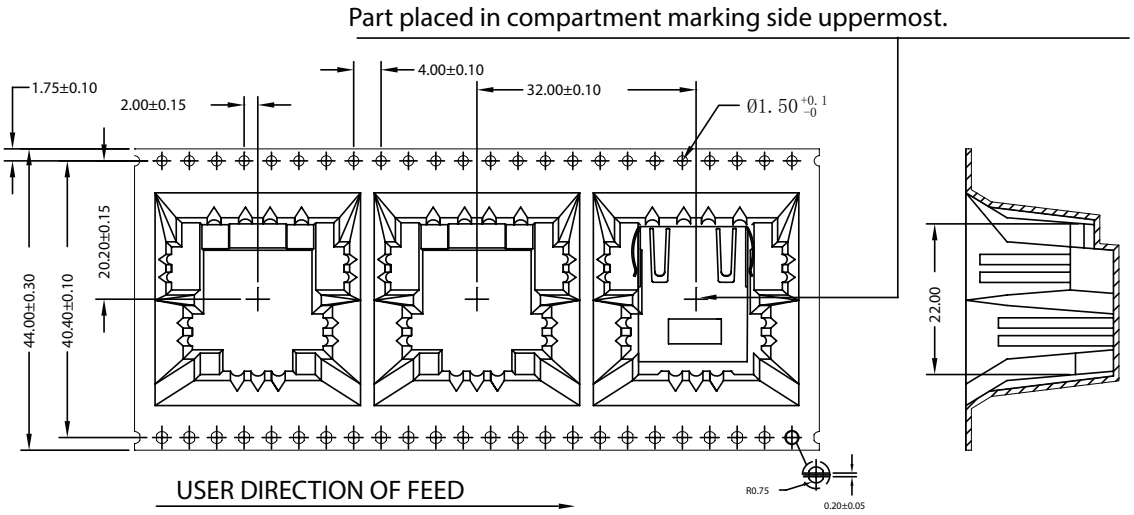
RECOMMENDED PCB LAYOUT VIEWED FROM COMPONENT SIDE

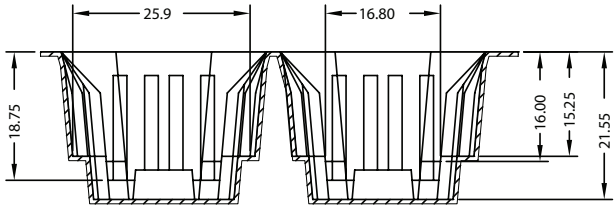
PCB LAYOUT DIMENSIONS REFERENCED TO PIN#1 AND ±.003 UNLESS OTHERWISE SPECIFIED

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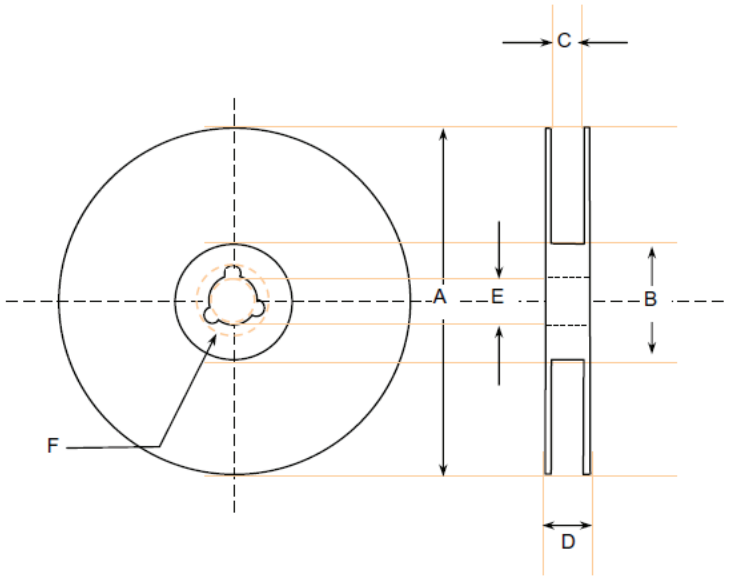
100 Base-TX RJ45 1X1 Tab-Up 8 pin Integrated Magnetics Connector, designed for industrial rated applications and is suitable for reflow solder mounting.

Tape and Reel Specification





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



PACKING SPECIFICATION:

JXR1-00xxNLT = TAPE and REEL .....80 parts/reel
JXR1-00x1NL = TUBE .....25 parts
JXR1-00x5NL = TUBE .....30 parts

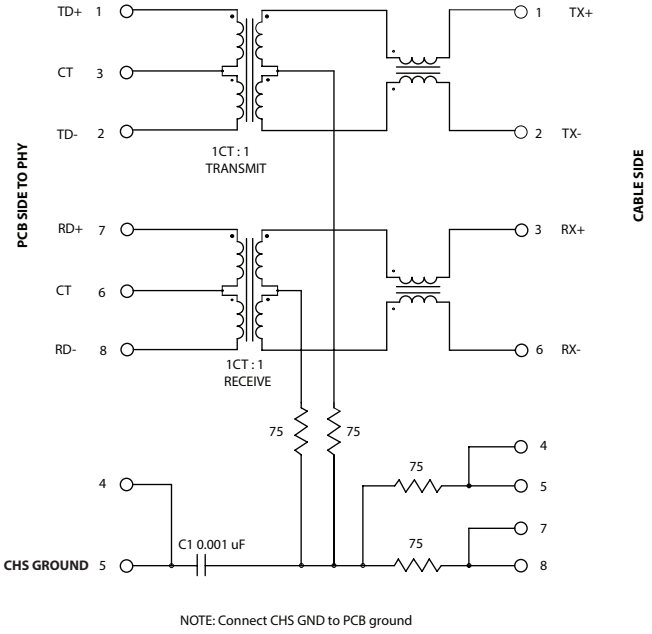
REEL SPECIFICATION in mm

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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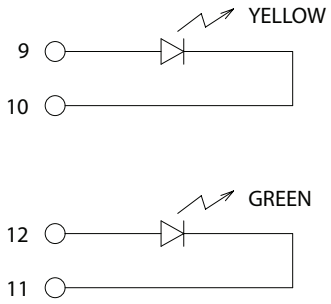
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Electrical Schematic



NOTE: Connect CHS GND to PCB ground

LED Specification



Emmitted Color	Green	Yellow
Wavelength (nm)	585 nm	2.1 V
Brightness (mCD)	8 to 12 TYP. @ 20mA	8 to 12 TYP. @ 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

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AWCS0012070736NJ00 BDHE002520122R2MQ1 JXD0-2015NL JXD2-0Z10NL PA4320.334NLT PG2290.151HLT PGL6395.121HLT W1902 PA4343.361NLT PAT6261.003NLT W3334B0150 E5J88-032-02-L PD617-6000M243 PE-67100NL BSPQ000603041N4B00 BSPQ000603043N0B00 PA4343.451NLT PD380-4000S1NF PE-68386NLT W1093 ANT1204F007R0870A DPX1608LKF3R2460A PA0369NL PA2744NL PA4320.104NLT BBUP00201209121Y00 PA4341.221NLT P0585NL PA4341.301NLT W3078