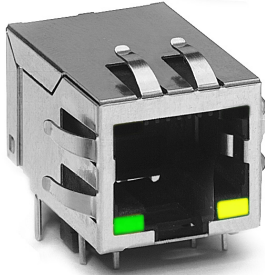


Description:

10/100 Base-TX RJ45 1x1 Tab-DOWN 8-pin Integrated Magnetics Connector, designed to support high volume cost-conscious consumer applications such as: ADSL modems, Cable modems, STB and Video on Demand.



Features and Benefits:

-  RoHS peak wave solder temperature rating 260°C Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
-  Meets IEEE 802.3 specification
-  350µH minimum OCL with 8mA bias current
-  High performance for MAX EMI suppression for cost-conscious applications

10 Base-T Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

RoHS Compliant Part Number	Data Rate	Turns Ratios		EMI Fingers	LEDs (L/R)	BST	Insertion Loss (dB MAX)	Return Loss (dB MIN) 100Ω ± 15Ω	Crosstalk (dB MIN)	Common Mode Rejection (dB MIN)	Hipot (Vrms)
		TX	RX				1-10MHz	1-10MHz	1-10MHz	5MHz	@60Hz 1 MIN
J00-0051NL	10BT	1CT:2.5	1CT:1	Yes	G/Y	No	-1	-15	-30	-25	1500
J00-0062NL	10BT	1CT:2.5	1CT:1	No	None	No	-1	-15	-30	-25	1500
J00-0063NL	10BT	1CT:2.5	1CT:1	No	G/Y	No	-1	-15	-30	-25	1500

10/100 Base-T Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

RoHS Compliant Part Number	Data Rate	Turns Ratios		EMI Fingers	LEDs (L/R)	BST	Insertion Loss (dB MAX)	Return Loss (dB MIN) 100Ω ± 15Ω					Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)		Hipot (Vrms)
		TX	RX				1- 65MHz	1-1 0MHz	10- 30MHz	30- 60MHz	60- 80MHz	1- 30MHz	30- 60MHz	60- 100MHz	1- 50MHz	50- 150MHz	@60Hz 1 MIN	
J00-0014NL	100BT	1CT:1	1CT:1	No	None	Yes	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	
J00-0042NL	100BT	1CT:1	1CT:1	No	None	No	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	
J00-0045NL	100BT	1CT:1	1CT:1	No	G/Y	Yes	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	
J00-0061NL	100BT	1CT:1	1CT:1	Yes	None	Yes	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	
J00-0065NL	100BT	1CT:1	1CT:1	Yes	G/Y	Yes	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	
J00-0066NL	100BT	1CT:1	1CT:1	Yes	G/Y	No	-1	-18	-14	-12	-10	-35	-35	-30	-20	-15	1500	

Notes:

- For an explanation of EMI fingers, refer to the mechanical drawing page
- LEDs Left/Right: **G**=green, **Y**=yellow
- IEEE802.3i (10Base-T) standard does not require these parts to achieve 350µH minimum OCL with 8mA bias current for 10Base-T parts.

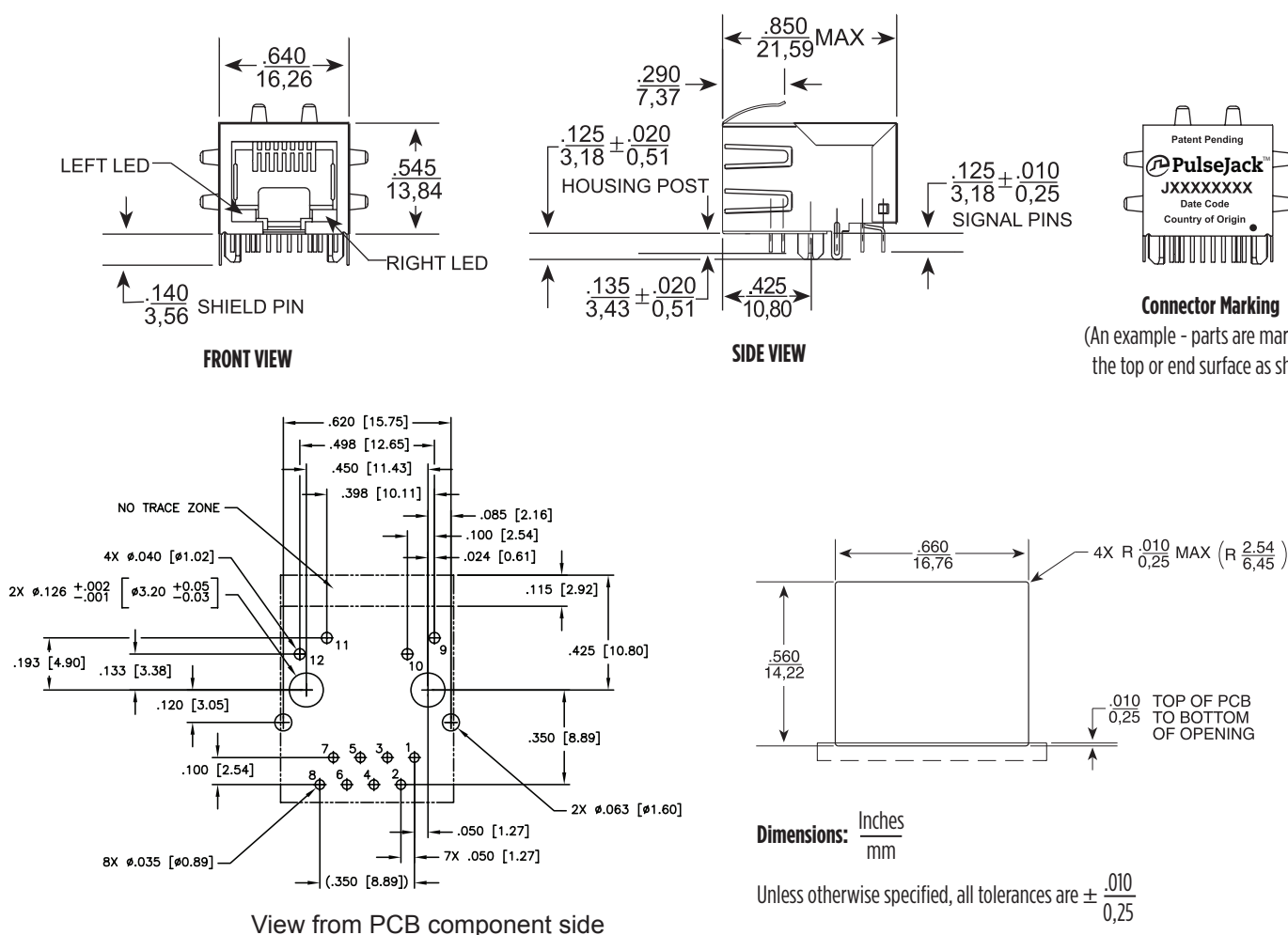
RJ45 Durability Testing Rating				
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
J00 Series	5lbs./2.268kgs.	5lbs./2.268kgs.	750 Insertions	20lbs./9.072kgs.

RJ45 Material Specification								
Part Number	Turns Ratio		Contact			Housing		MSL ² Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
J00 Series	Brass	20-40m inches Nickel over 10-20m inches Brass	Phosphor Bronze	Nickel underplating and selective gold plating 15μ inches	Tin matte finish	Thermoplastic	UL 94 V-0	1

Notes:

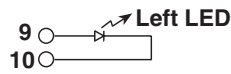
1. Connector dimensions comply with FCC dimension requirements
2. **MSL** - Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5).

J00-00XXL Series Mechanicals



LED Configuration

Green / Yellow LED Specification - (LEDs without internal resistors)

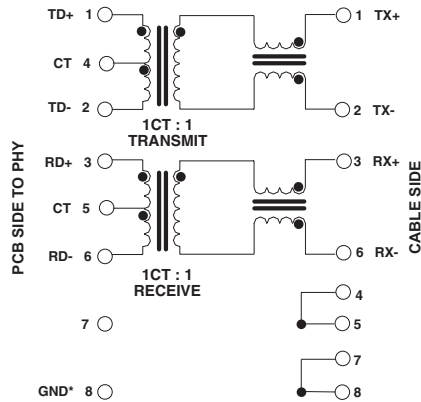


Standard LED	Wavelength	Forward* V(MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 V
Green	565 nm	2.5 V	2.2 V

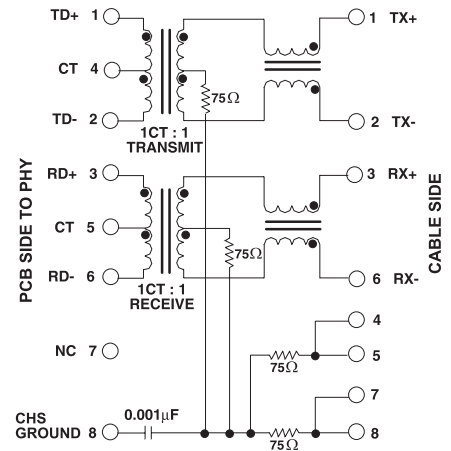
* Assumes bias current = 20mA

J00-00XX Series Electrical Schematics

J00-0042NL/66NL



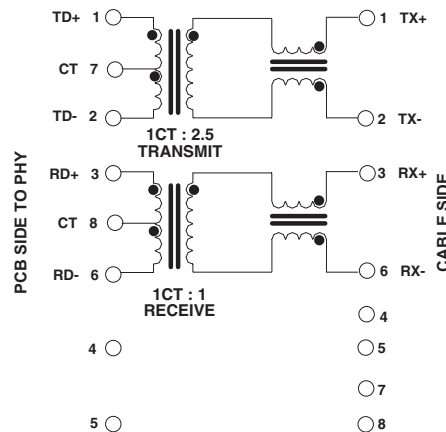
J00-0014NL/45NL/61NL/65NL



NOTE: Connect CHS GND to PCB ground.

J00-00XX Series Electrical Schematics

J00-0051NL/62NL/63NL



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