PULSEJACK™
1x1 Tab-UP RJ45

Pulse
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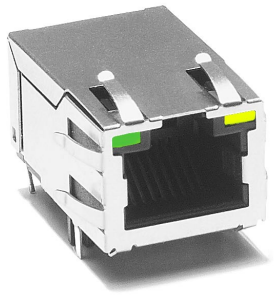
Description:

10/100 Base-TX RJ45 1x1 Tab-UP with LEDs 8-pin (J1 series) and 6-pin (JP series) integrated magnetics connector, designed to support applications, such as ADSL modems, LAN-on-Motherboard, and Hub and Switches.

RoHS COMPLIANT



Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP

Electrical Performance Summary:

- Meets IEEE 802.3 specification
- 350µH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

RoHS Compliant	Turns Ratios		EMI Fingers	LEDs [1] L/R	Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω ±15Ω				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms)
Part No.	TX	RX			1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-80 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz	@60Hz 1 MIN
J1006F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1006F21NL	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1011F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1011F21PNL	1CT:1	1CT:1	YES	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1012F01CNL	1CT:1	1CT:1	No	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1012F21CNL	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1012F21KNL	1CT:1	1CT:1	YES	G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1012F21RNL	1CT:1	1CT:1	YES	RG/RY	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1026F01NL	1CT:1	1CT:1	No	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1026F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
J1026F21CNL	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
JP006821UNL	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
JP011821UNL	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
JP026821UNL	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

NOTES:

1. LEDs Left/Right: G = green, Y = yellow, G_O = green/orange bi-color LED, R = LEDs with resistors.

RJ45 Durability Testing Rating

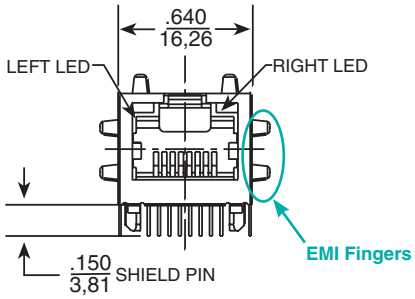
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
JP/J1 Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.

RJ45 Material Specification

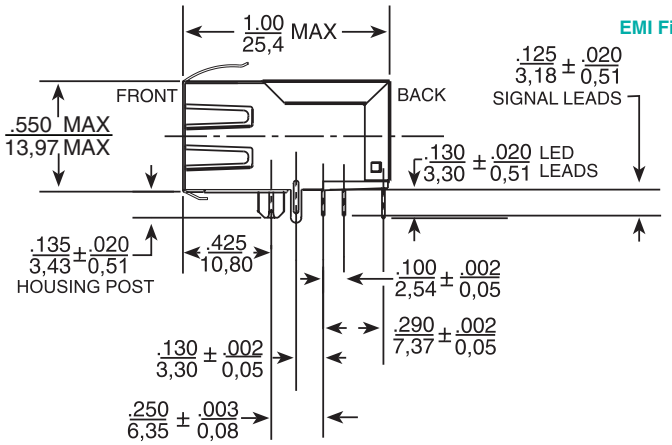
Part Number	Shield		Contact			Housing		MSL [2]
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	Rating
JP/J1 Series	Brass	10-20m inches Nickel over 10-20m inches Brass	Phosphor Bronze	Nickel underplating and selective gold plating 15µ inches	Tin matte finish	Thermoplastic	UL 94 V-0	1

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

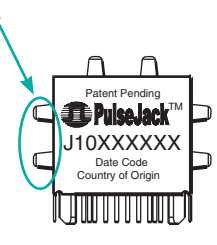
J1 Series Mechanicals



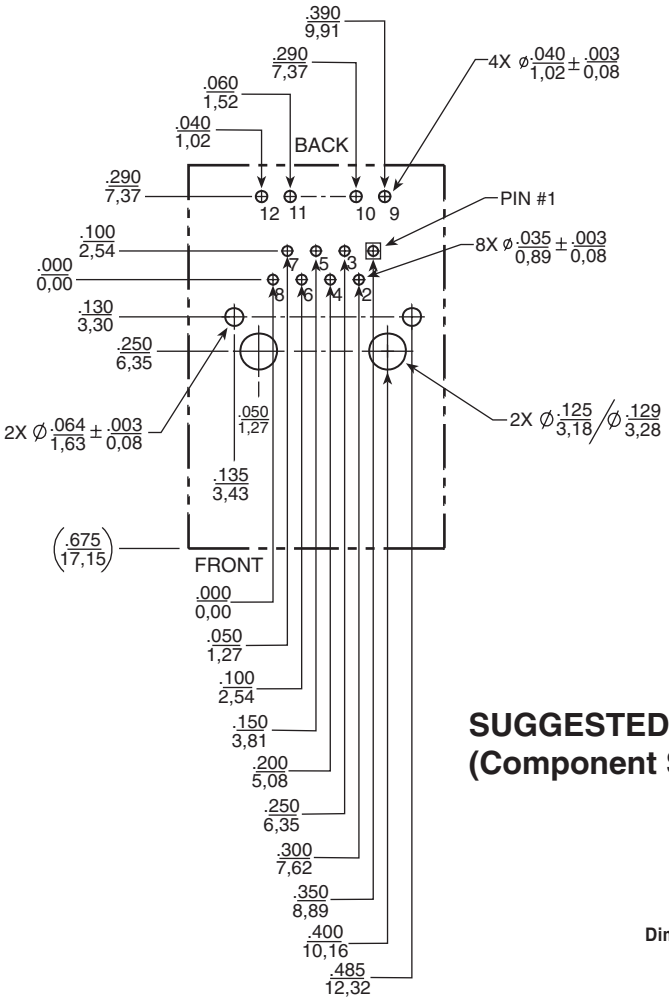
FRONT VIEW



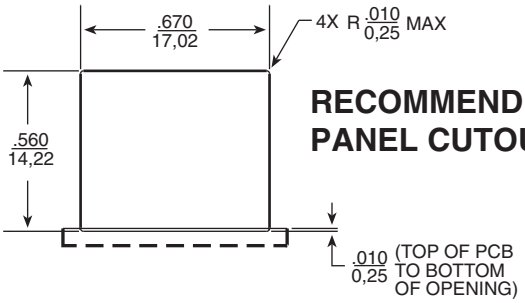
SIDE VIEW



BACK VIEW



SUGGESTED PCB LAYOUT
(Component Side)



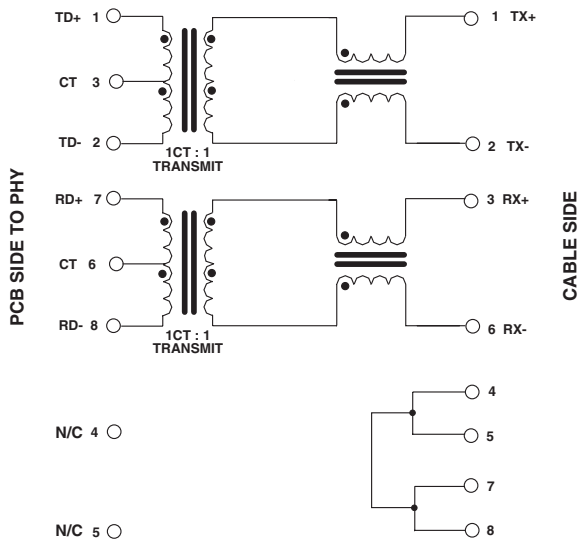
RECOMMENDED PANEL CUTOUT

FACE VIEW

Dimensions: Inches / mm Unless otherwise specified, all tolerances are ± .010 / 0,25

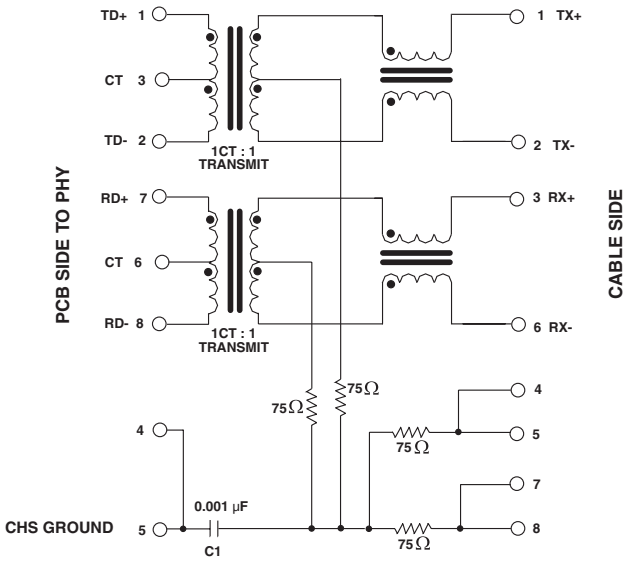
J1 Series Electrical Schematics

J1006



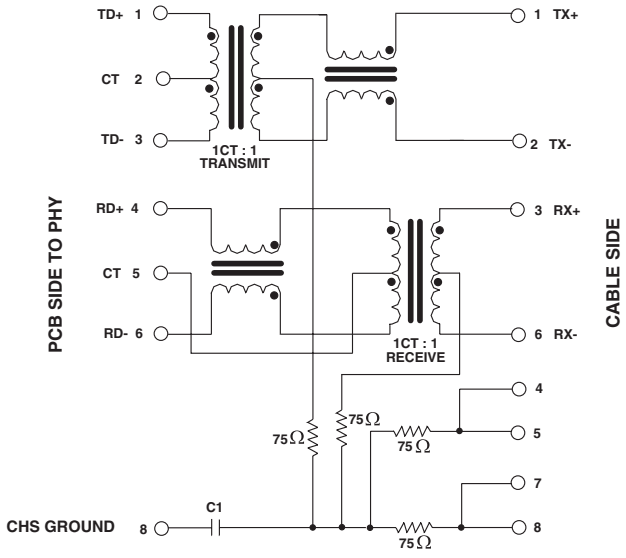
NOTE: Connect CHS GND to PCB ground.

J1011



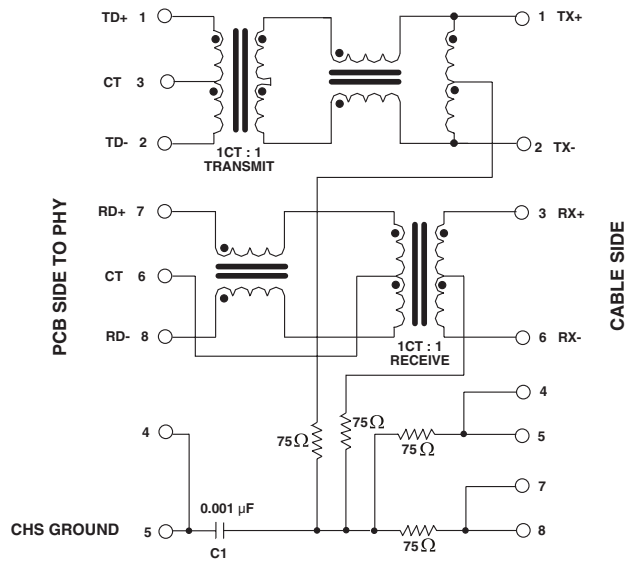
NOTE: Connect CHS GND to PCB ground.

J1012



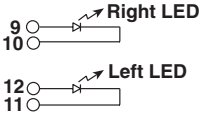
NOTE: Connect CHS GND to PCB ground.

J1026

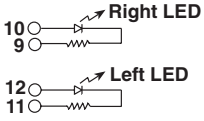


NOTE: Connect CHS GND to PCB ground.

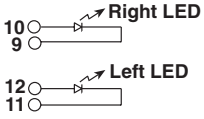
LED = P



LED = L or R



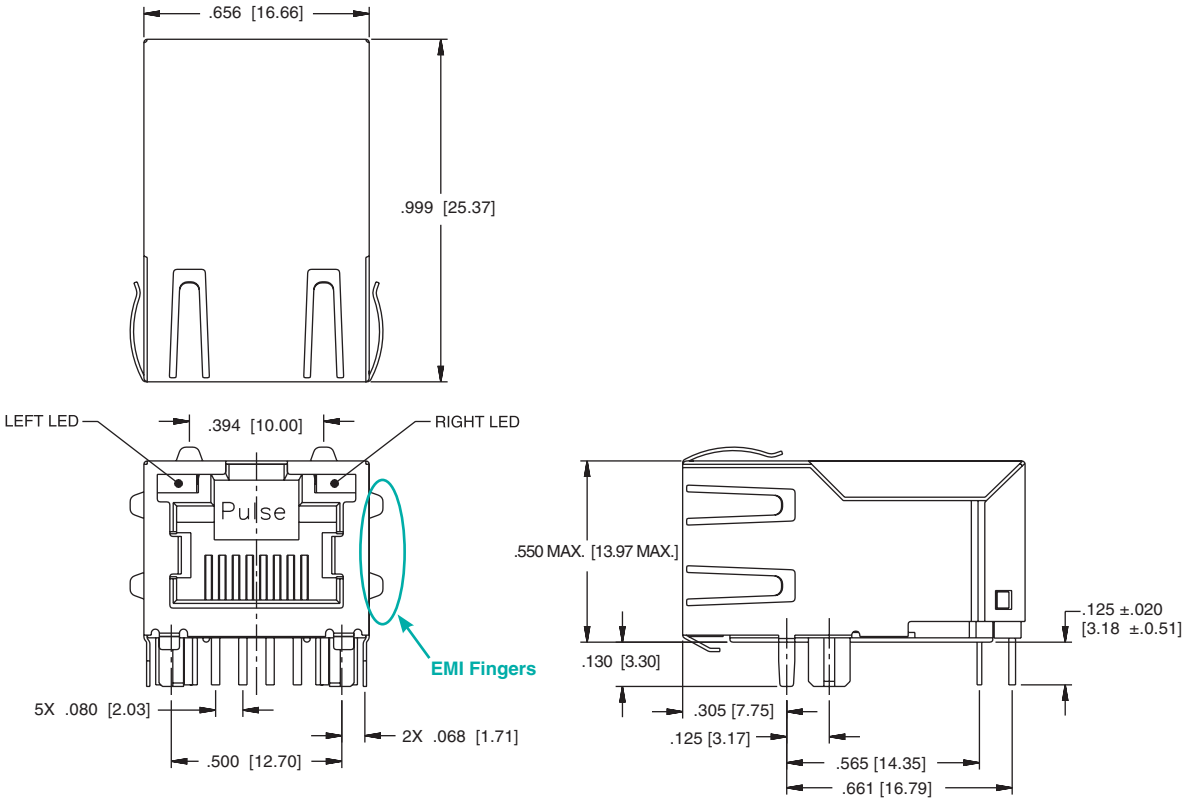
LED = C or K

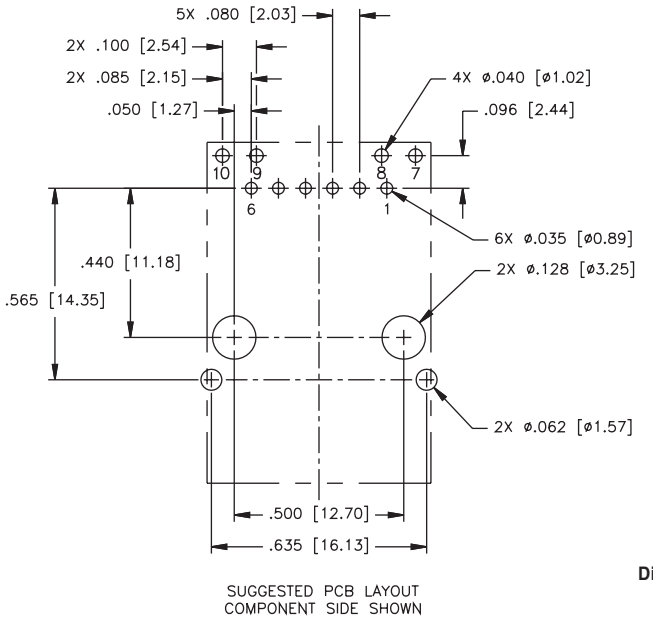


Standard LED	Wavelength	Forward* V(MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 V
Green	565 nm	2.5 V	2.2 V

* With a forward current of 20 mA

JP Series Mechanicals





SUGGESTED PCB LAYOUT
COMPONENT SIDE SHOWN

Dimensions: Inches / mm Unless otherwise specified, all tolerances are ± .010 / 0,25

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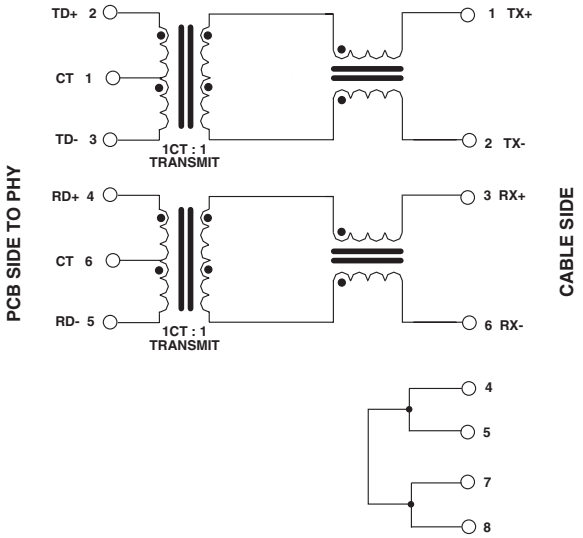
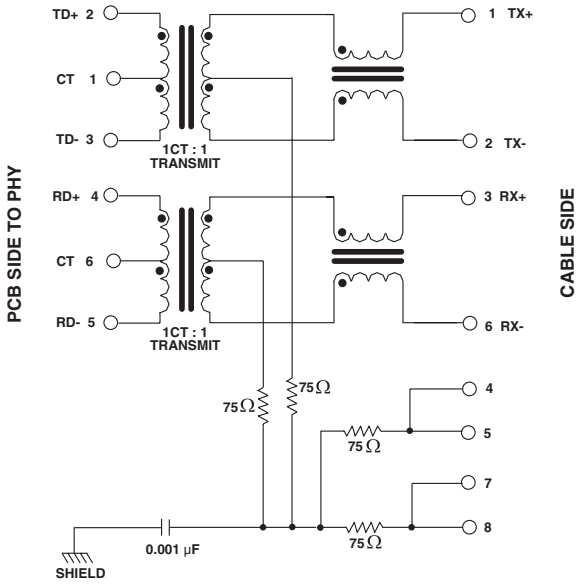
JP Series Electrical Schematics

JP006

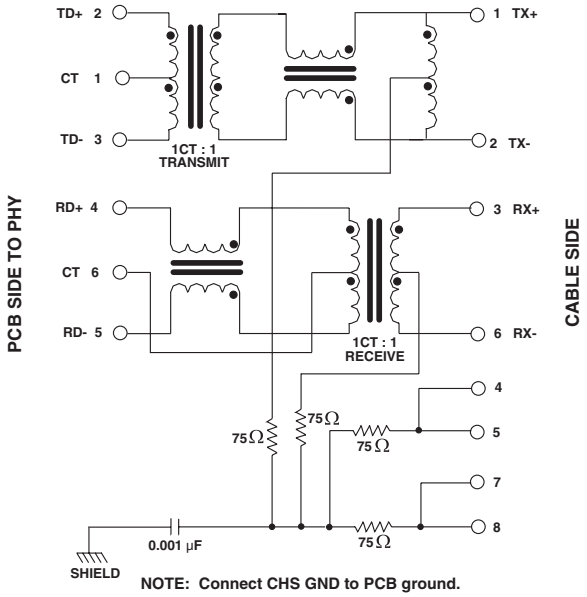


NOTE: Connect CHS GND to PCB ground.

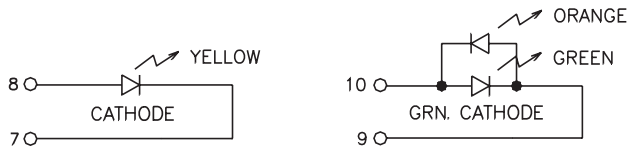
JP011



JP026



NOTE: Connect CHS GND to PCB ground.



Standard LED	Wavelength	Forward* V (MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 - 2.2 V
Green	565 nm	2.5 V	2.1 - 2.2 V
Orange	610 nm	2.5 V	2.1 - 2.2 V

* With a forward current of 20 mA

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http://moschip.ru/get-element

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