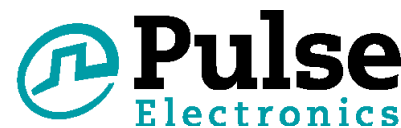


PulseJack™

1x1 Tab-UP RJ45



Description:

100 Base-TX (Fast Ethernet) 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.



Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
Suitable for CAT 5 & 6 UTP cable or better
- 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 Part Number (Number of Ports)	Turns Ratios		EMI Fingers	LEDs L/R	Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω (±15Ω)					Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @60Hz 1 MIN
	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	
J1006F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1006F21NL	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1011F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1011F21PNL	1CT:1	1CT:1	YES	G/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1012F01CNL	1CT:1	1CT:1	No	Y/G	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1012F21CNL	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1012F21KNL	1CT:1	1CT:1	YES	G/G	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1012F21RNL	1CT:1	1CT:1	YES	RG/R	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1026F01NL	1CT:1	1CT:1	No	NONE	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1026F01PNL	1CT:1	1CT:1	No	G/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
J1026F21CNL	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
JP006821UNL	1CT:1	1CT:1	YES	G_0/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
JP011821UNL	1CT:1	1CT:1	YES	G_0/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500
JP026821UNL	1CT:1	1CT:1	YES	G_0/Y	-1.0	-20	-16	-12	-10	-10	-40	-35	-30	-30	-20	1500

Notes:

- LEDs Left/Right: G = green, Y = yellow, G_0 = green/orange bi-color LED, R = LEDs with resistors.

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

RJ45 Durability Test 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.

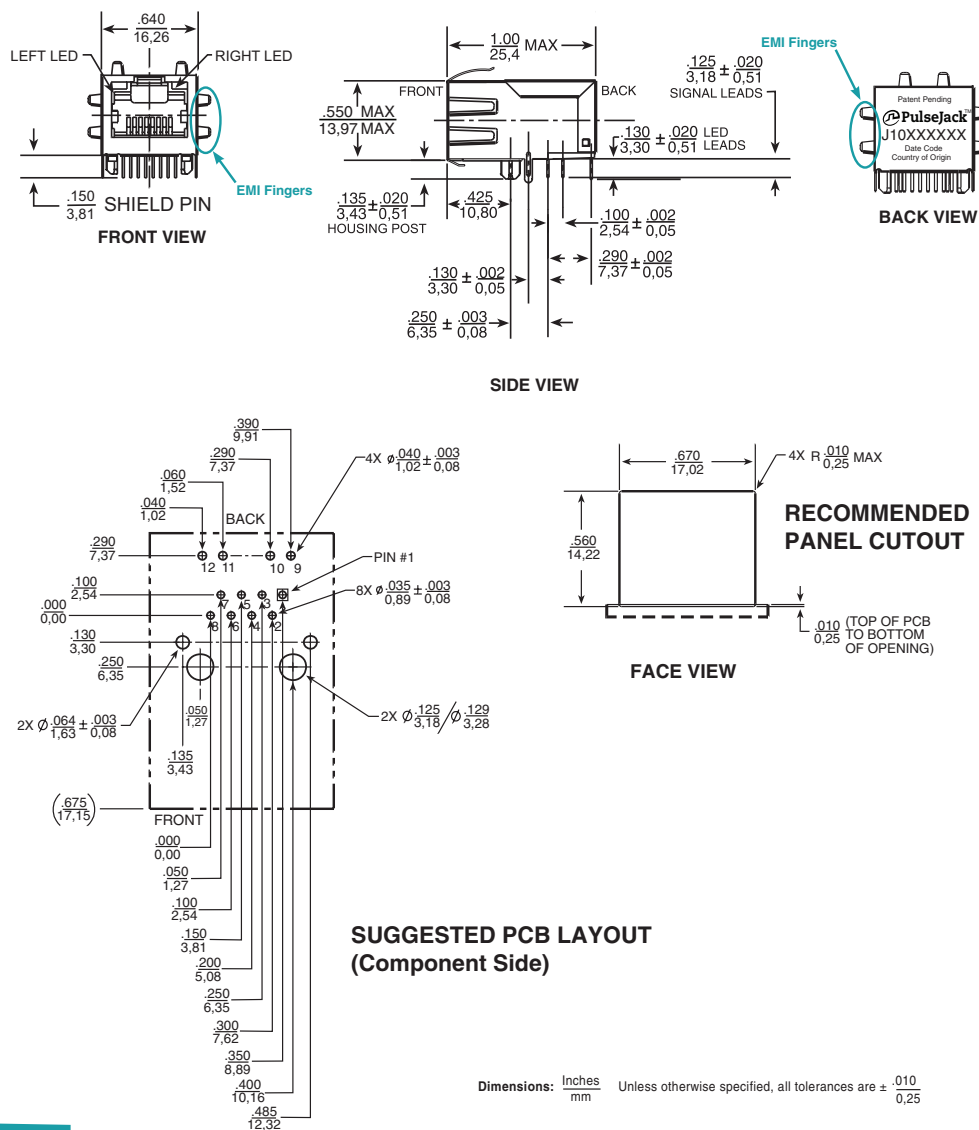
RJ45 Material Specification

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

Notes:

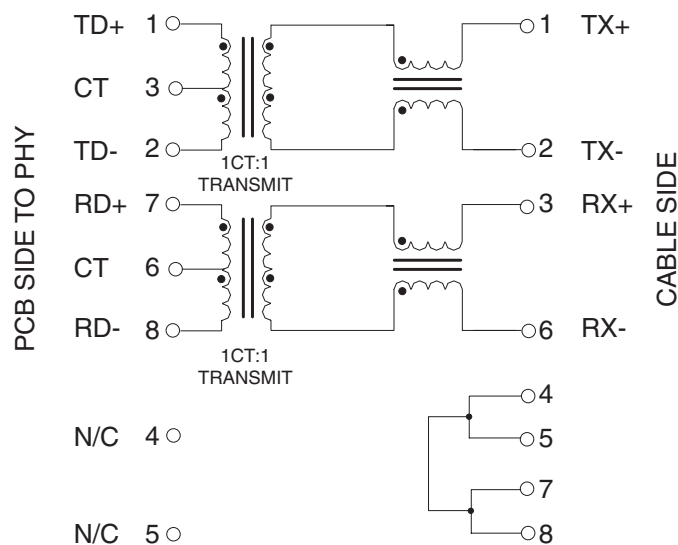
1. Connector dimensions comply with FCC dimension requirements. 2. MSL = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5)

J1 Series Mechanicals



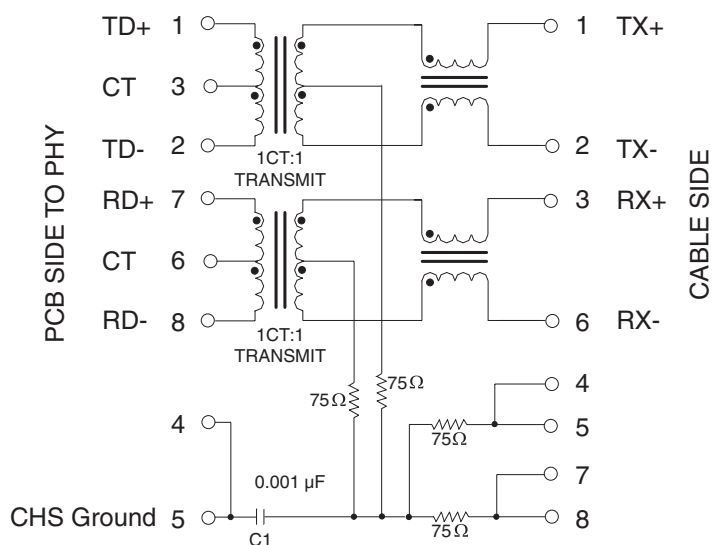
J1 Series Electrical Schematics

J1006



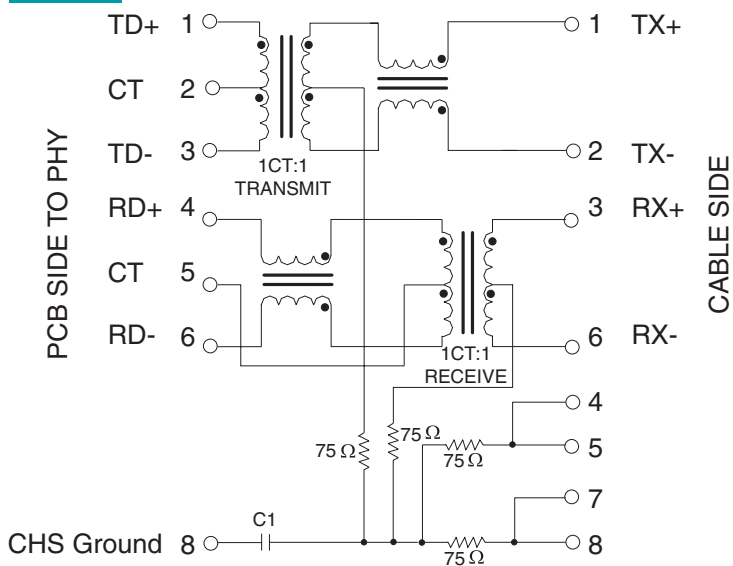
Note: Connect CHS GND to PCB ground.

J1011



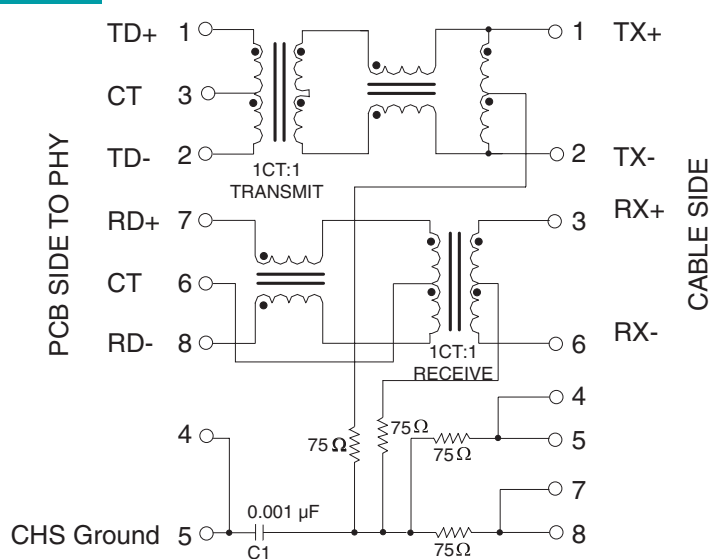
Note: Connect CHS GND to PCB ground.

J1012

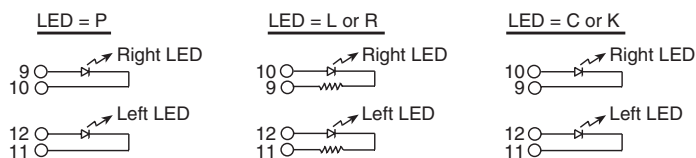


Note: Connect CHS GND to PCB ground.

J1026



Note: Connect CHS GND to PCB ground.



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

Technical drawings of the Pulse LED component showing dimensions in inches and millimeters.

Top View:

- Overall width: .656 [16.66]
- Overall height: .999 [25.37]
- LED spacing: .394 [10.00]
- Left LED and Right LED labels.
- Pulse label.
- EMI Fingers (highlighted in blue).
- 5X .080 [2.03]
- .500 [12.70]
- 2X .068 [1.71]

Side View:

- Overall height: .550 MAX. [13.97 MAX.]
- LED height: .130 [3.30]
- LED width: .305 [7.75]
- LED spacing: .125 [3.17]
- LED width: .565 [14.35]
- LED spacing: .661 [16.79]
- LED height: .125 ± .020 [3.18 ± 0.51]

Suggested PCB Layout Component Side Shown:

- 5X .080 [2.03]
- 10X .100 [2.54]
- 10X .085 [2.15]
- 10X .050 [1.27]
- 4X Ø.040 [Ø1.02]
- .096 [2.44]
- 6X Ø.035 [Ø0.89]
- 2X Ø.128 [Ø3.25]
- 2X Ø.062 [Ø1.57]
- 10X .440 [11.18]
- 10X .35 [8.89]
- .500 [12.70]
- .635 [16.13]

Dimensions: Inches / mm

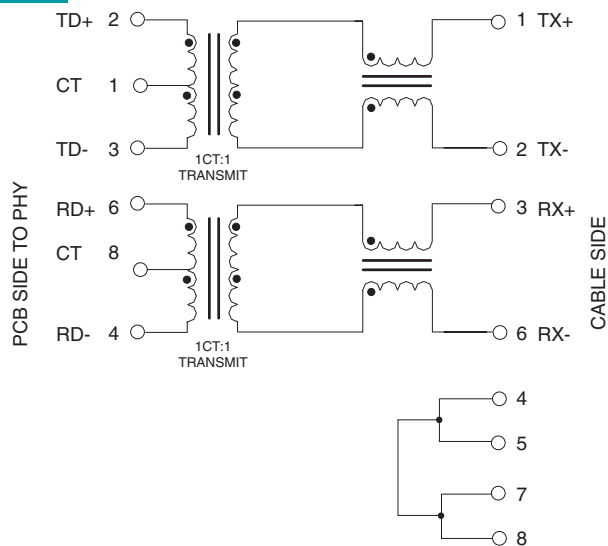
Unless otherwise specified, all tolerances are ± .010 / 0,25

PulseJack™

1x1 Tab-UP RJ45

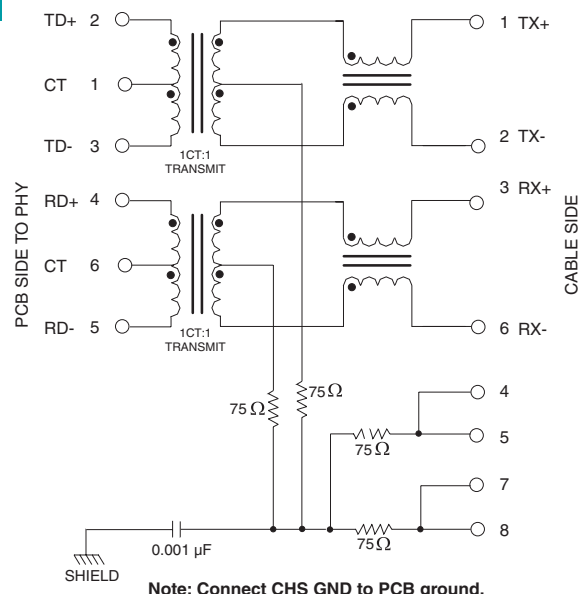
JP Series Electrical Schematics

JP006



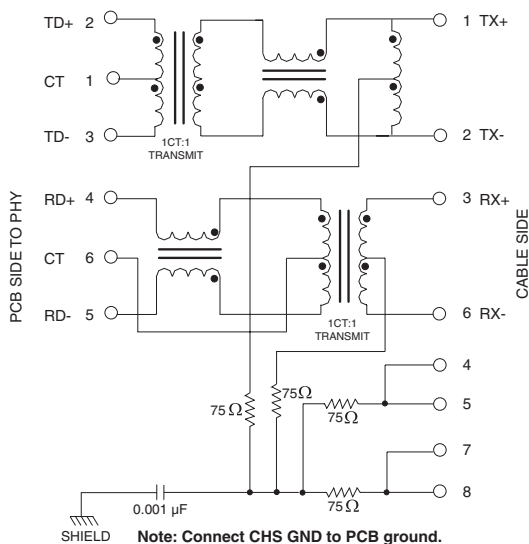
Note: Connect CHS GND to PCB ground.

JP011

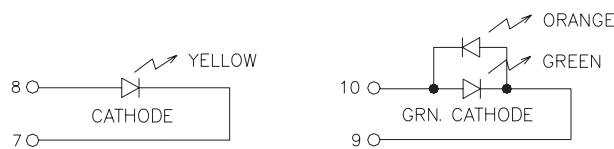


Note: Connect CHS GND to PCB ground.

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

For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA
92128
U.S.A.

Tel: 858 674 8100

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejian Road
High-Tech Zone
Nanshan District
Shenzhen, PR China
518057

Pulse North China
Room 2704/2705
Super Ocean Finance
Ctr.
2067 Yan An Road
West
Shanghai 200336
China

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823
(Pulse)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2012. Pulse Electronics, Inc. All rights reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[JP011821U](#) [J1011F01P](#) [J1012F21KNL](#) [J1011F21PNL](#) [J1012F21CNL](#) [J1026F21CNL](#) [J1006F21NL](#) [J1026F01NL](#)
[J1011F01PNL](#) [J1026F01PNL](#) [J1006F01PNL](#) [JP026821UNL](#) [JP006821UNL](#) [JP011821UNL](#) [J1012F21RNL](#)
[J1012F01CNL](#) [J00-0042](#) [J00-0061](#) [J00-0045](#) [J00-0014](#)