

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 LED	LEDs	Insertion Loss (dB TYP)	Return Loss (dB TYP) $100\Omega \ (\pm 15\Omega)$			Crosstalk (dB TYP)		Common Mode Rejection (dB TYP)		Hipot (Vrms)		
	TX	RX	Fingers	L/R	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_0/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
JP011821UNL	1CT:1	1CT:1	YES	G_0/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
JP026821UNL	1CT:1	1CT:1	YES	G_0/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

Notes:

1. 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

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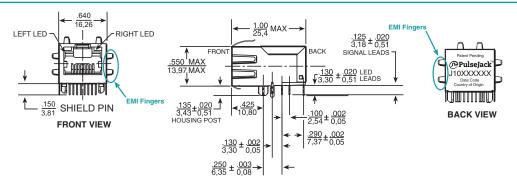
RJ45 Durability Test Rating								
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)				
JP/J1 Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.				

RJ45 Material Specification										
Part		Shield		Contact	Housing		MSL ²			
Number	Material	Finish	Material	Plating Area	Solder Area	Material	Specification			
		10-20µ inches thick nickel	Phosphor	Nickel underplating and	Tin matte finish	Thermoplastic	UL 94 V-0			
JP/J1 Series	Brass	over 10-20µ inches Brass	Bronze	selective gold plating 15µ inches				1		

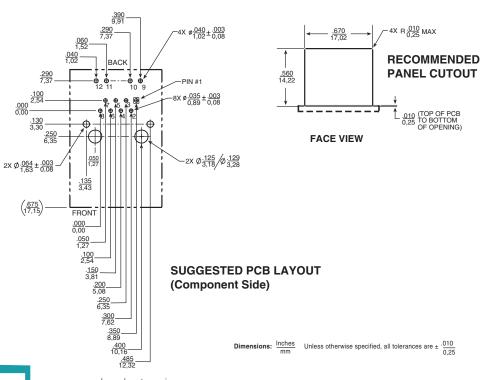
Notes:

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



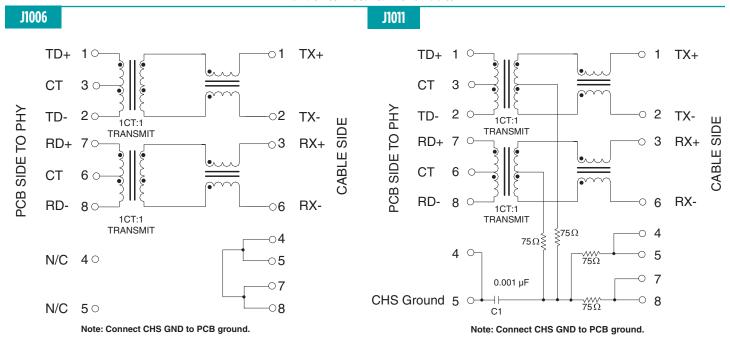
SIDE VIEW

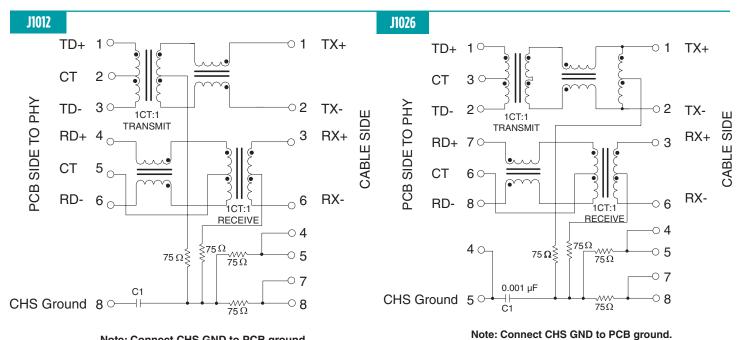


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J1 Series Electrical Schematics





Note: Connect CHS GND to PCB ground.

LED = C or K

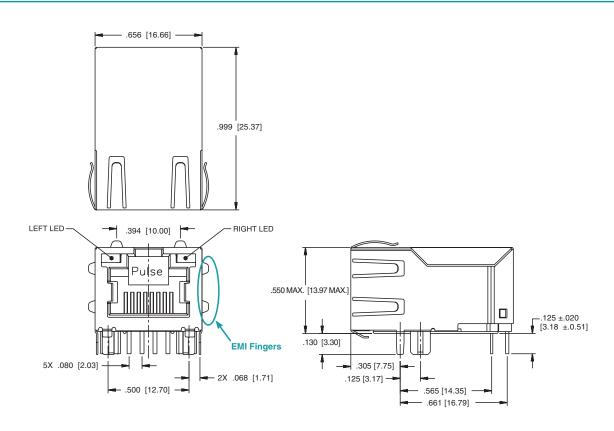
Standard LED Forward* V(MAX) (TYP) Wavelength Yellow 585 nm 2.5 V 2.1 V Green 2.5 V 2.2 V

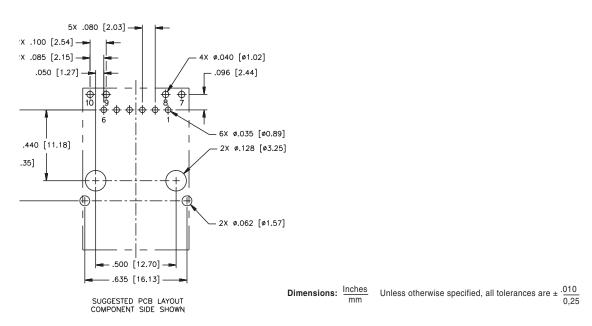
3 J402.G (10/12) pulseelectronics.com

^{*} With a forward current of 20 mA



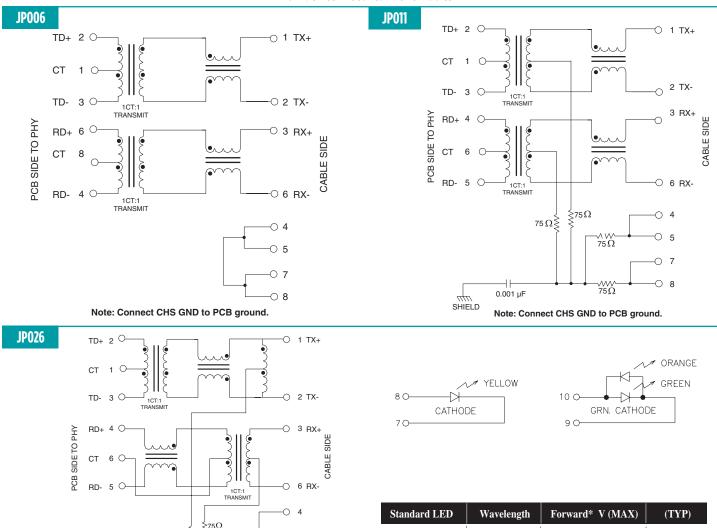
JP Series Mechanicals





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JP Series Electrical Schematics



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

0.001 µF

Note: Connect CHS GND to PCB ground.

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Pulse:

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