

NUMBER:RD-SDRJPLB-203TC1 DATE: 2008/02/04 R(REV:A4)

Single 10/100 BASE-TX Filtered Connector Integrated LED (PoE) MODEL NO.: RJPLB-203TC1

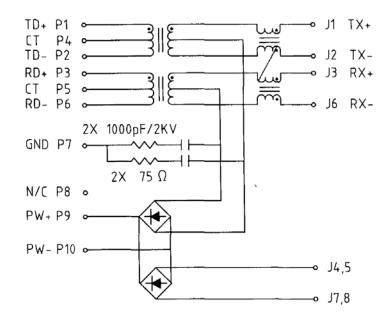
Features:

- **O RoHS Compliant**
- Fully shielded magnetics protect data from internally generated digital noise
- **O** Reduces the overall length of the signal path for improved common mode performance
- O Implements full common mode termination scheme with used and unused twisted pairs
- Meets IEEE802.3 Baseline Wander Compensation specification
- O Integrates high voltage capacitor to chassis ground
- **Supports all major transceivers with matched turns ration and complete integration of specified termination**
- O Design for 100base-tx transmission over UTP-5 cable
- Operating TEMP. range:-40°C to +85°C
- **○** Storage TEMP. range:-55°C to +125°C
- O Primary OCL inductance: 350μH MIN. at 100KHz/0.1Vrms 8mA DC bias

Typical Performance Characteristics a 25°C

Insertion Loss (dB MAX)	Return Loss (dB Min @100±15Ω)				Differential to Common Mode Rejection (dB MIN)	Cross talk (dB MIN)				CMRR (dB MIN)	Isolation Voltage (Vrms min)	
MHz	MHz				MHz	MHz					MHz	
1~100	1~30	40	50	60~80	1~100	20	40	60	80	100	1~100	1500
-1.0	-16	-14	-12	-10	-33	-47	-40	-37	-35	-33	-30	

Schematic: Design on MDI Interface Circuitry



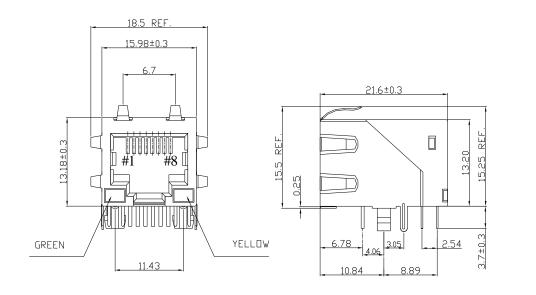


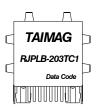
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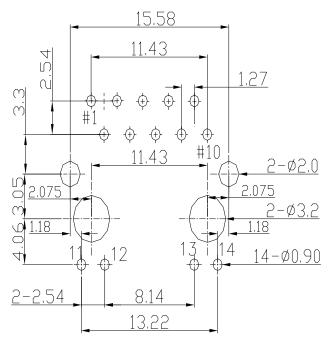
Dimension: mm

TOLERANCE: ±0.15 (unless otherwise specified)





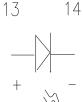
Connector Marking



GREEN 11 12



RECOMMENDED P.C.B LAYOUT COMPONENT SIDE OF BOARD

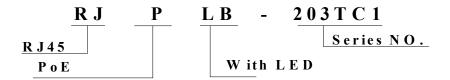


YFII DW



NUMBER:RD-SDRJLBP-203TC1 DATE: 2008/02/04 R(REV:A4)

MODEL NO. : RJPLB-203TC1 Ordering Information



Requirements:

1. Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable product drawing.

2. Materials and Finish

A. Contact:

RJ Contact: Phosphor Bronze, Thickness=0.30mm

Finish :Contact Area :6μ"min. Gold over 50 μ"min. Nickel

RJ Joint Contact: SPCC, Thickness=0.3mm

Finish: 80μ"min. Sn over 50 μ "min. Nickel

LED Joint Contact: SPCC, Thickness=0.50mm

Finish: 80μ"min. Sn over 50μ"min. Nickel

B. Plastic Part:

(1) Set Housing: Thermoplastic, LCP, Black

UL FILE NO.: E106764

Manufacturer: POLYPLASTICS CO LTD.

Grade: E130i(d)(e)

Flame Class: UL 94V-0

(2) Insert: Thermoplastic, LCP, Black

UL FILE NO.: E106764

Manufacturer: POLYPLASTICS CO LTD.

Grade: E130i(d)(e)

Flame Class: UL 94V-0

(3) Spacer: Thermoplastic, LCP, Black

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Manufacturer: POLYPLASTICS CO LTD.

Grade: E130i(d)(e)

Flame Class: UL 94V-0



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Manufacturer: SHIKONG SYNTHETIC FIBERS CORP.

Grade: E202G30BK

Flame Class: UL 94V-0

C. Shield Material:

Cartridge t=0.25mm

10μ"-20μ" Thick Nickel over Brass

D. LED Lamp

(a) Lens Color: Transparent with color

(b) Emitted Color: Green & Yellow

(c) Viewing Angle: 60°

(d) Dominant Wavelength: Green 570nm; Yellow 585nm

(e) Forward Current / Reverse Voltage: Green 30 mA /(5V); Yellow 20 mA /(5V)

(f) Material: Green (GaP/GaP); Yellow (GaAsP/GaP)

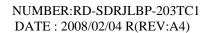
3. Ratings

(1) Voltage rating: 125 VAC

(2) Current rating: 1.5A

Durability:

- (1)1000 cycles with no function damage for RJ-45. Abnormalities shall be present after the test.
- (2)Low Level Contact Resistance : $\Delta R=30m\Omega$ maximum (final)
- (3) The sample should be mounted in the tester and fully mated and unmated 500 times per hour at the rate of 25mm/min.EIA-364-09C.





MODEL NO.: RJPLB-203TC1

1. Unit weight :5.7 grams

package: 100 pcs / tray / 0.61 kgms
Carton: 1000 pcs / 10 layers of tray

4. Gross weight: 6.6455 kgms

Package drawing:

