

10/100 BASE FILTER WITH CONNECTOR

MODEL NO. : RJLD-231TA1

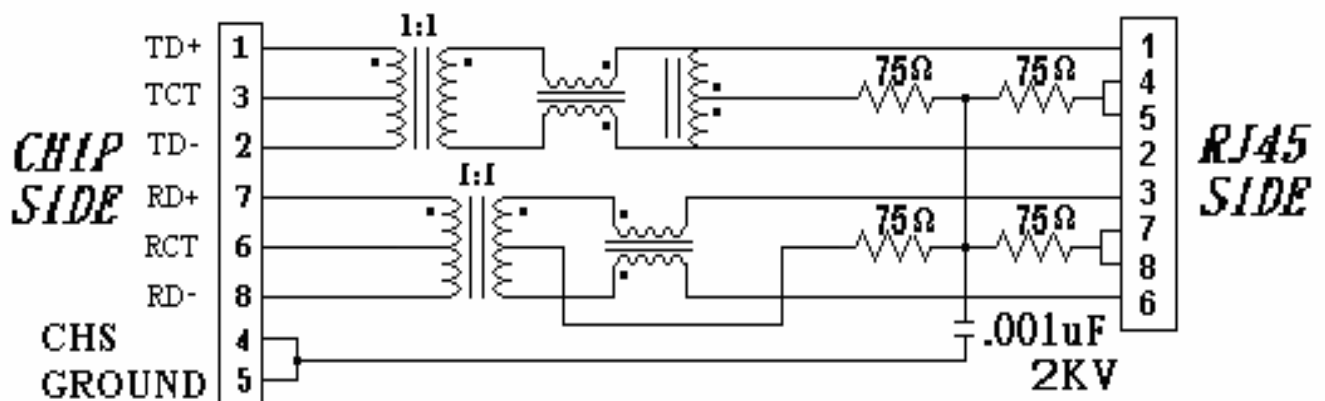
Features

- ⊙ **RoHS Compliant**
- ⊙ **Fully shielded magnetics protect data from internally generated digital noise**
- ⊙ **Reduces the overall length of the signal path for improved common mode performance**
- ⊙ **Implements full common mode termination scheme with used and unused twisted pairs**
- ⊙ **Meets IEEE802.3 Baseline Wander Compensation specification**
- ⊙ **Integrates high voltage capacitor to chassis ground**
- ⊙ **Supports all major transceivers with matched turns ration and complete integration of specified termination**
- ⊙ **Design for 100BASE-TX Transmission over UTP-5 cable.**
- ⊙ **Operating temp range: 0°C to +70°C**
- ⊙ **Primary OCL inductance: 350uH Min. at 100KHz/0.1Vrms with 8mA DC bias.**
- ⊙ **With the LED lamp.**

Typical Performance Characteristics@ 25°C

Insertion Loss (dB MAX)	Return Loss (dB Min @100Ω)				Differential to Common Mode Rejection (dB MIN)	Cross talk (dB MIN)					CMRR (dB MIN)	Isolation Voltage (Vrms min)
	MHz	MHz				MHz	MHz					
1~100	1~30	40	50	60~80	1~100	20	40	60	80	100	1~150	1500
-1.1	-16	-14	-12	-10	-33	-47	-40	-35	-32	-30	-20	

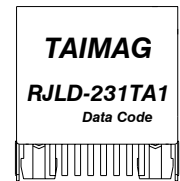
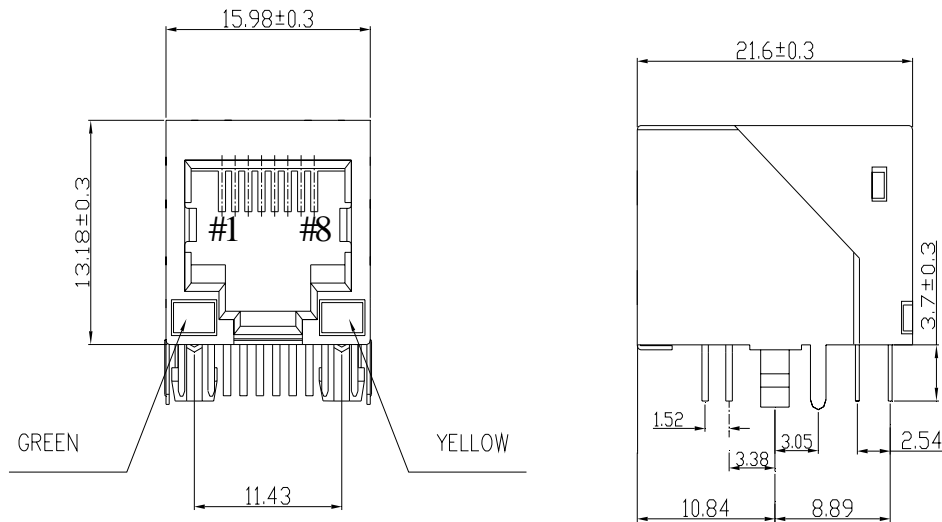
Schematic Design on MDI Interface Circuitry



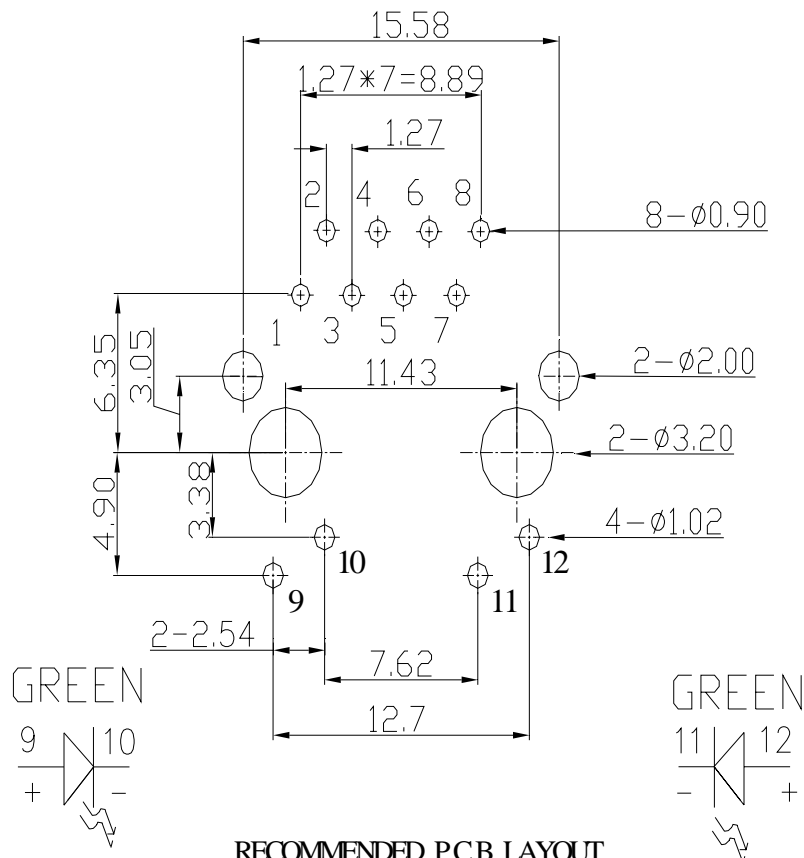
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Dimension: mm

TOLERANCE:±0.15 (unless otherwise specified)



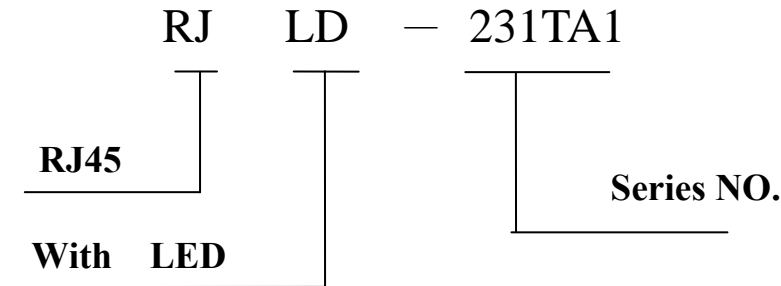
Connector Marking



RECOMMENDED P.C.B LAYOUT
COMPONENT SIDE OF BOARD

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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 : 6 μ "min. Gold over 50 μ "min. Nickel

RJ Joint Contact : SPCC, Thickness=0.3mm

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

LED Joint Contact : SPCC, Thickness=0.5mm

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

B. Plastic Part :

(1) Set Housing : Thermoplastic, LCP, Black

UL FILE NO. : E107536

Manufacturer : SHIKONG SYNTHETIC FIBERS CORP.

Grade : E202G30BK

Flame Class : UL 94V-0

(2) Insert : Thermoplastic, PBT, Black

UL FILE NO. : E107536

Manufacturer : SHIKONG SYNTHETIC FIBERS CORP.

Grade : E202G30BK

Flame Class : UL 94V-0

(3) Spacer : Thermoplastic, PBT, Black

UL FILE NO. : E107536

Manufacturer : SHIKONG SYNTHETIC FIBERS CORP.

Grade : E202G30BK

Flame Class : UL 94V-0

C. Shield Material :

Cartridge t=0.25mm

10 μ "-20 μ " Thick Nickel over C2680R.



NUMBER:RD-SDJ0026D01BNL (PU)
DATE :2007/06/15 R(REV:A1)

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D. LED Lamp

- (a) Lens Color: Transparent with color**
- (b) Emitted Color: Green**
- (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)**

3. Ratings

(1) Voltage rating : 125 VAC

(2) Current rating : 1.5A

4.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.

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1. Unit weight :5.7 grams
2. package : 100 pcs / tray / 0.61 kgms
3. Carton : 1000 pcs / 10 layers of tray
4. Gross weight : 6.6455 kgms

Package drawing:

