

## 10/100 BASE FILTER WITH CONNECTOR MODEL NO. : RJLD-302TC1

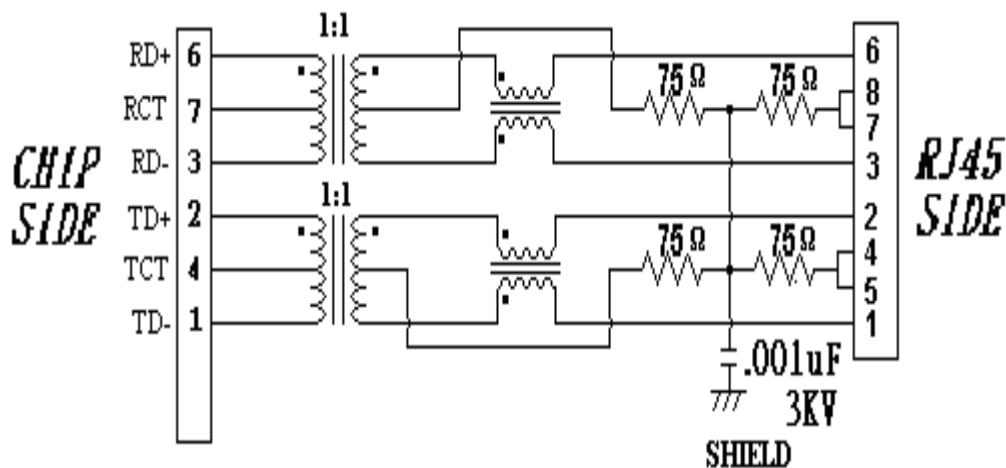
### Features

- ⊙ 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: -40°C to +85°C
- ⊙ Storage temp range: -55°C to + 125°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						
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	

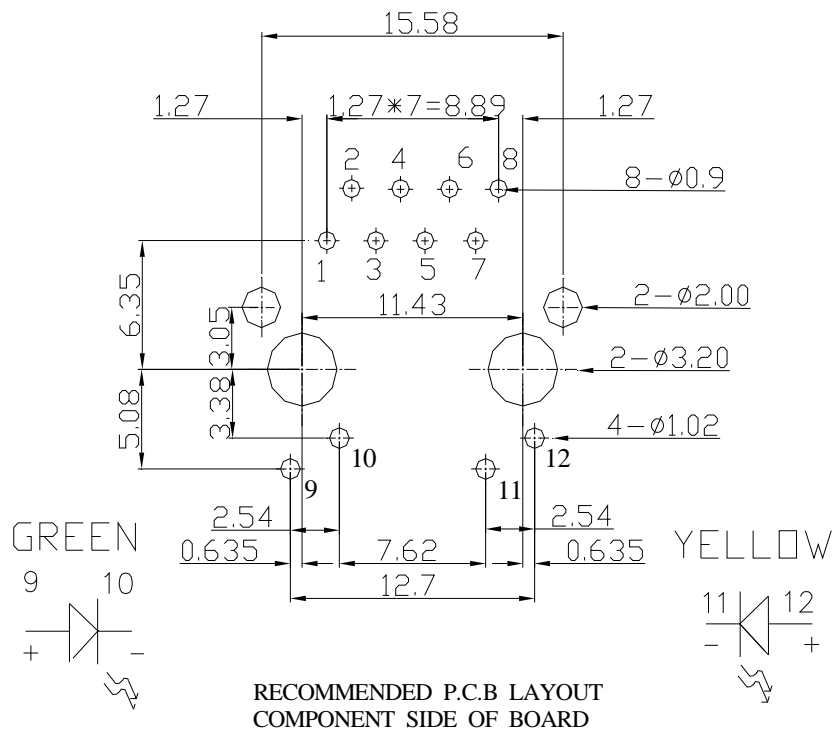
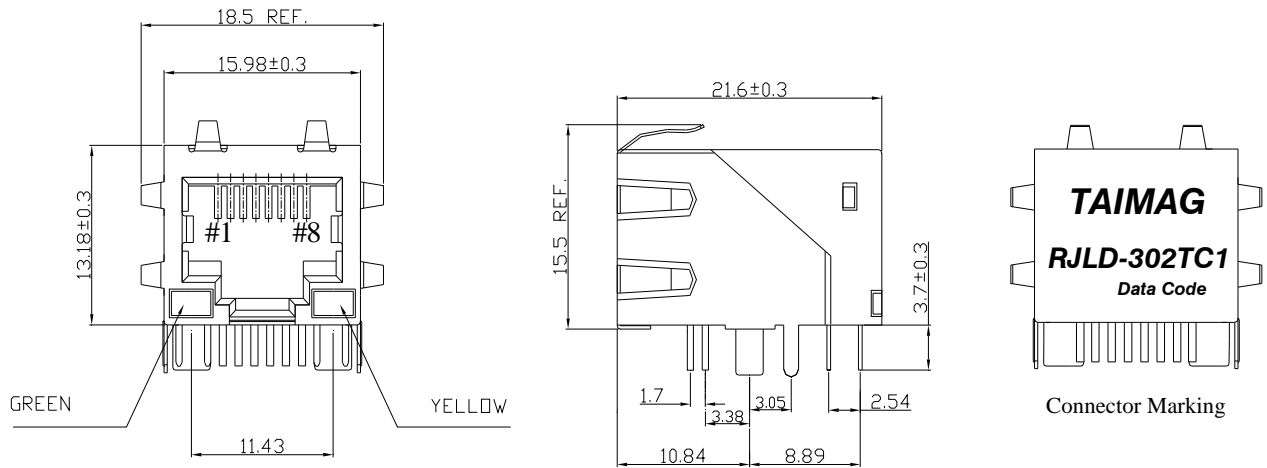
### Schematic Design on MDI Interface Circuitry



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Dimension: mm

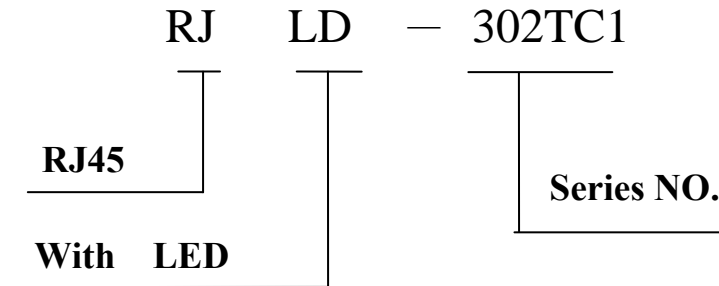
TOLERANCE:±0.15 (unless otherwise specified)



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 : 30 $\mu$ "min. Gold over 50 $\mu$ "min. Nickel

RJ Joint Contact : SPCC, Thickness=0.3mm

Finish : 80 $\mu$ "min. Sn over 50 $\mu$ "min. Nickel

LED Joint Contact : SPCC, Thickness=0.5mm

Finish : 80 $\mu$ "min. Sn over 50 $\mu$ "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

UL FILE NO. : E106764

Manufacturer : POLYPLASTICS CO LTD.

Grade : E130i(d)(e)

Flame Class : UL 94V-0

##### C. Shield Material :

Cartridge t=0.25 $\pm$ 0.05mm

10 $\mu$ "-20 $\mu$ " Thick Nickel over Brass.



NUMBER:RD-SD-RJ-LU1T043-XX(LB)  
DATE :2009/01/16 R(REV:A1)

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## **MODEL NO. : RJLD-302TC1**

### **D. LED Lamp**

- (a) Lens Color : Transparent with color**
- (b) Emitted Color : Green & Yellow**
- (c) View Angle : 60°**
- (d) Wave Length : 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)**
- (g) LED Provider: GRANT GLORY ENTERRISES LTD.**

### **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.**

## Model NO.: RJLD-302TC1

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:

