

## 10/100 BASE FILTER WITH DUAL USB 2.0 CONNECTOR

Model NO.: RJLU-032TA1

### Feature:

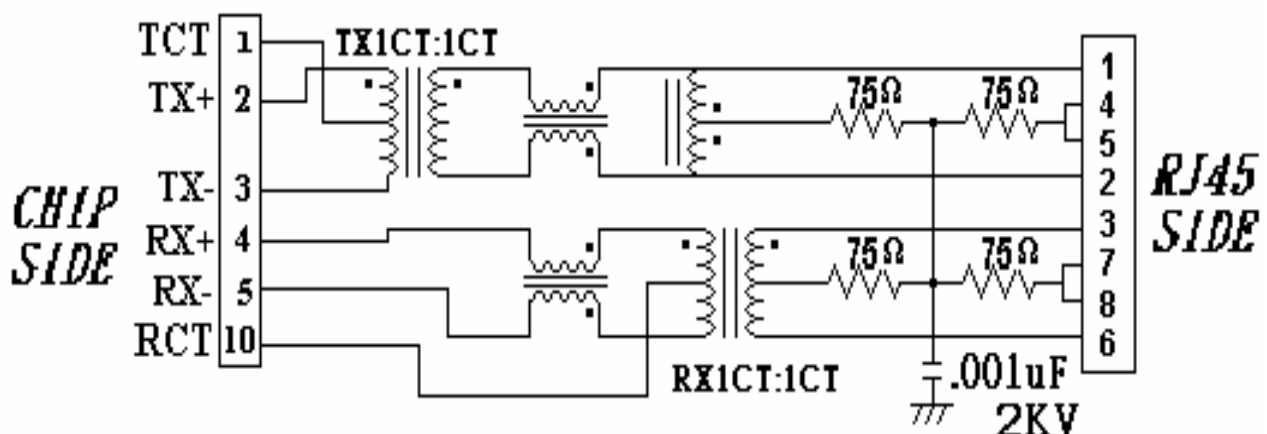
RoHS Compliant

- ⊙ 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: 350μH 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 @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	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



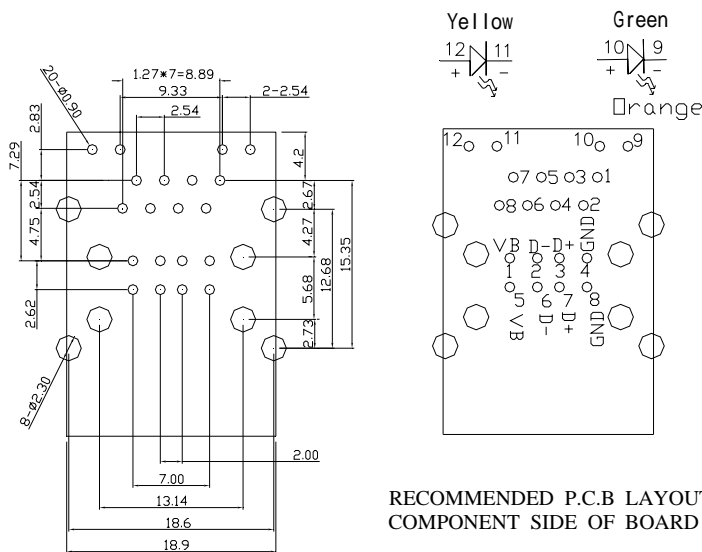
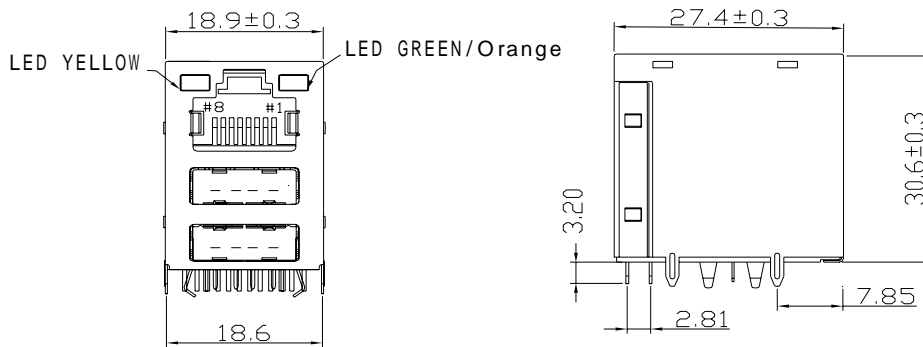
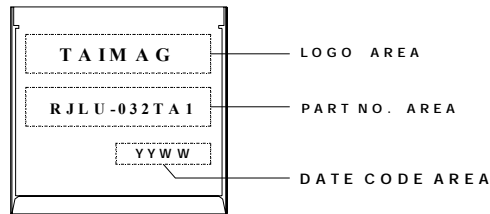


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Dimension: mm

TOLERANCE:±0.15 (Unless otherwise specified)





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## **Ordering Information**

<b>R J L U - 0 3 2 T A 1</b>	
<b>R J 4 5</b>	<b>Series N O .</b>
<b>W i t h L E D</b>	<b>w i t h U S B</b>

## **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 : (a) Contact Area :6 $\mu$ "min. Gold over 50 $\mu$ "min. Nickel**

**RJ Joint Contact : Brass, Thickness=0.4mm**

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

**USB Contact :Phosphor Bronze, Thickness=0.25mm**

**Finish : (a) Contact Area : 30 $\mu$ "min. Gold over 50 $\mu$ "min. Nickel**

**LED Joint Contact : Brass, Thickness=0.30mm**

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

#### **B. Plastic Part :**

**(1) Set Housing : Thermoplastic, PBT, 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**



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UL FILE NO. : E107536

Manufacturer : SHIKONG SYNTHETIC FIBERS CORP.

Grade : E202G30BK

Flame Class : UL 94V-0

(4) USB Housing : Thermoplastic, PBT, Black

UL FILE NO. : E107536

Manufacturer : SHIKONG SYNTHETIC FIBERS CORP.

Grade : E202G30BK

Flame Class : UL 94V-0

### C. Shield Material :

Cartridge  $t=0.25\text{mm}$

$10\mu\text{''}-20\mu\text{''}$  Thick Nickel over Brass

### D. LED Lamp

(a) Lens Color : Transparent with color

(b) Emitted Color : Green & Yellow & Orange

(c) View Angle :  $65^\circ$

(d) Wave Length : Green 565nm ; Yellow 585nm; Orange 605nm

(e) Recommended operation current (IF) : 20 mA

## 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 :  $\Delta R=30\text{m}\Omega$  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 :20.6 grams
2. package : 50 pcs / tray / 1.044 kgms
3. Carton : 400 pcs / 8 layers of tray
4. Gross weight : 8.964 kgms

### Package drawing:

