

Single 10/100 BASE-TX Filtered Connector Module

MODEL NO. : RJL-001

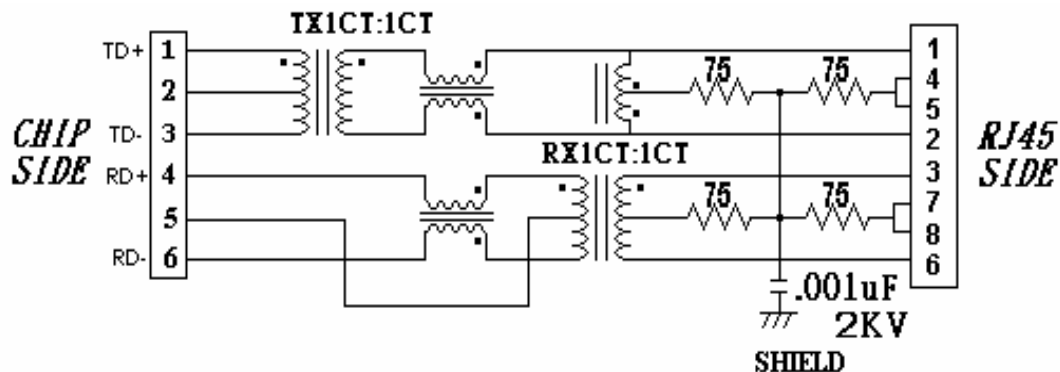
Features

- 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 TO +85
- STORAGE TEMP RANGE:-55 TO +125
- PRIMARY OCL INDUCTANCE:350uH min AT100KHz/0.1Vrms with 8mA DC BIAS.
With the LED lamp.

Typical Performance Characteristics

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					MHz	1500
0.3~100	100~125	0.5~40	60	80	100	0.3~100	20	40	60	80	100	0.3~100	
-0.8	-1.2	-18	-14.5	-12	-10	-35	-47	-40	-37	-35	-33	-30	

Schematic Design on MDI Interface Circuitry

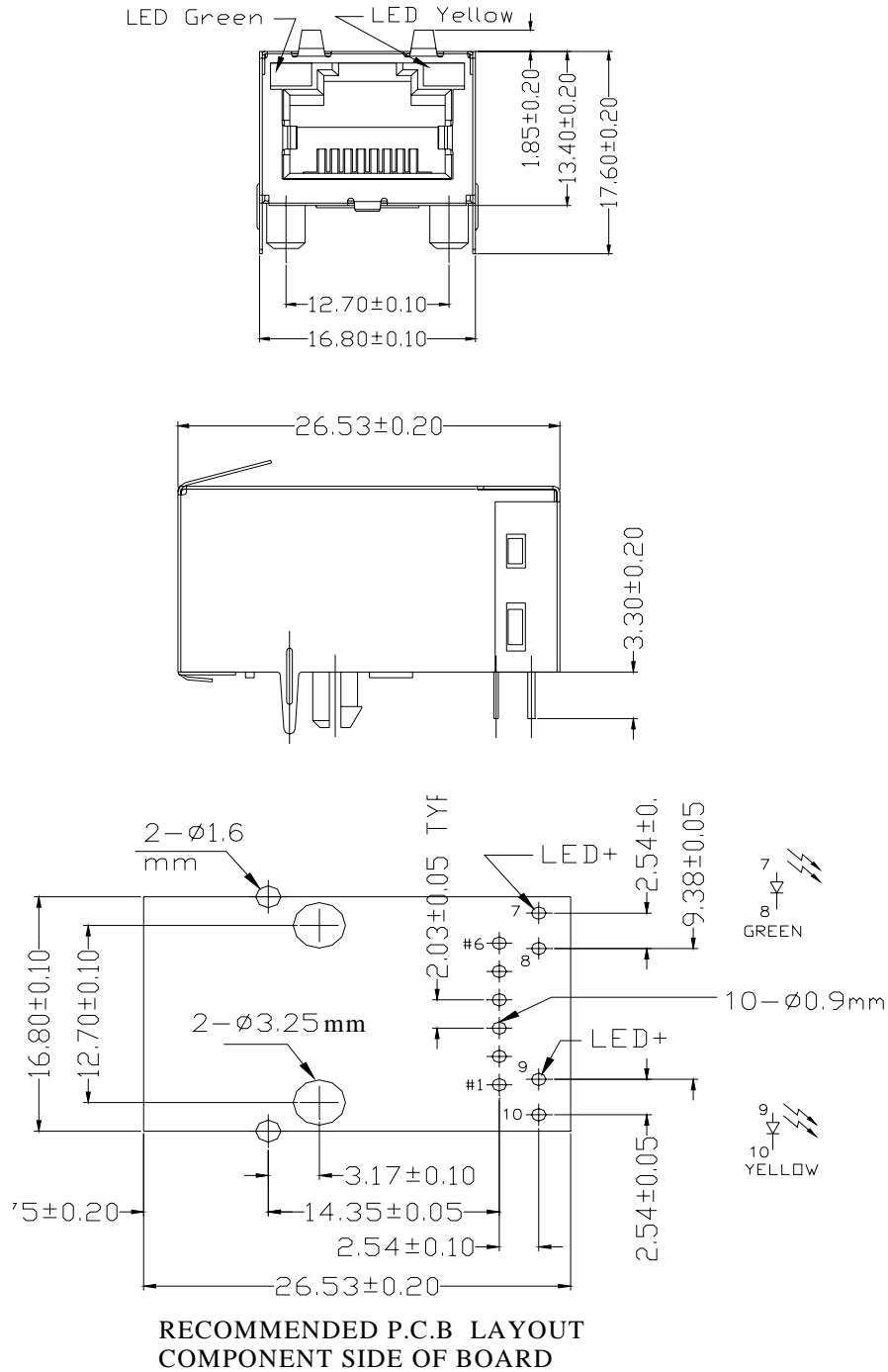


Taimag USA

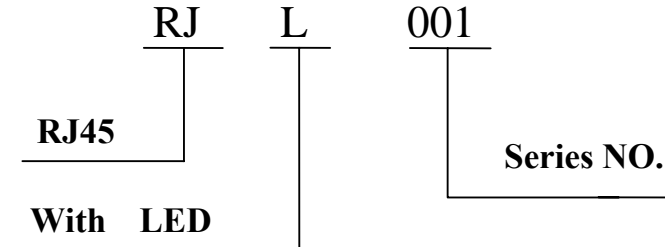
55 Charles Drive Tewksbury Ma 01876

tel: 978.777.7725 fax: 978.777.4877 <http://www.Taimagusa.com>

Mechanical Specifications



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 : (a) Contact Area : 30 μ "min. Gold

(b) Solder tail Area : 100 μ "min. Tin/Lead(9:1)

(c) Under plating : 50 μ "min. Nickel over all

RJ Joint Contact : Brass, Thickness=0.35mm

Finish : 100 μ "min. Tin/Lead(9:1) over 50 μ "min. Nickel

LED Joint Contact : Brass, Thickness=0.30mm

Finish : 100 μ "min. Tin/Lead(9:1) over 50 μ "min. Nickel

B. Plastic Part :

(1) Set Housing : Thermoplastic, PBT, Black

UL FILE NO. : E130155

Manufacturer : NAN YA PLASTICS CORP.

Grade :1403G3

Flame Class : UL 94V-0

(2) Insert : Thermoplastic, PBT, Black

UL FILE NO. : E130155

Manufacturer : MITSUI Petrochemical Industries

Grade : CH230N

Flame Class : UL 94V-0

- (3) Spacer : Thermoplastic, PBT, Black
UL FILE NO. : E130155
Manufacturer : NAN YA PLASTICS CORP.
Grade : 1403G3
Flame Class : UL 94V-0

C. Shield Material :

Cartridge t=0.25mm

10 μ "-20 μ " Thick Nickel over 10 μ "-20 μ " min Thick Nickel

D. LED Lamp

- (a) Lens Color : Transparent with color
(b) Emitted Color : Green & Yellow
(c) View Angle : 65
(d) Wave Length : Green 568nm ; Yellow 585nm

3. Ratings

(1) Voltage rating : 125 VAC

(2) Current rating : 1.5A

Durability :

1000 cycles with no function damage for RJ-45 . Abnormalities shall be present after the test.

Low Level Contact Resistance : $\Delta R=300m\Omega$ maximum (final)

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.