**HanRun®**
Electronics Company Limited

HR915310A

Electrical Specification @25°C

Isolation: 2250VDC 0.5mA 60sec (UTP Side to Chip Side)
OCL: 350uH Minimum @100KHz 100mV with 8mADC
Insertion Loss: −1.0dB Maximum @1MHz ~ 100MHz
Return Loss: −18dB Minimum @1MHz ~ 30MHz / −13.5dB Minimum @30MHz ~ 60MHz
        −12dB Minimum @60MHz ~ 80MHz / −10dB Minimum @80MHz ~ 100MHz
Common Mode Rejection: −30dB Minimum @1MHz ~ 100MHz
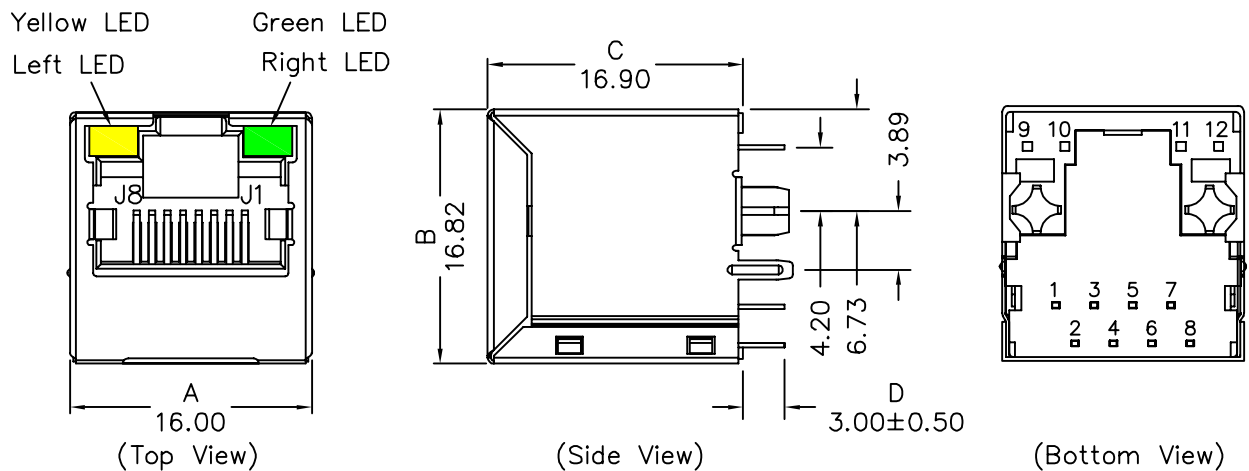Crosstalk: −30dB Minimum @1MHz ~ 100MHz

Schematics
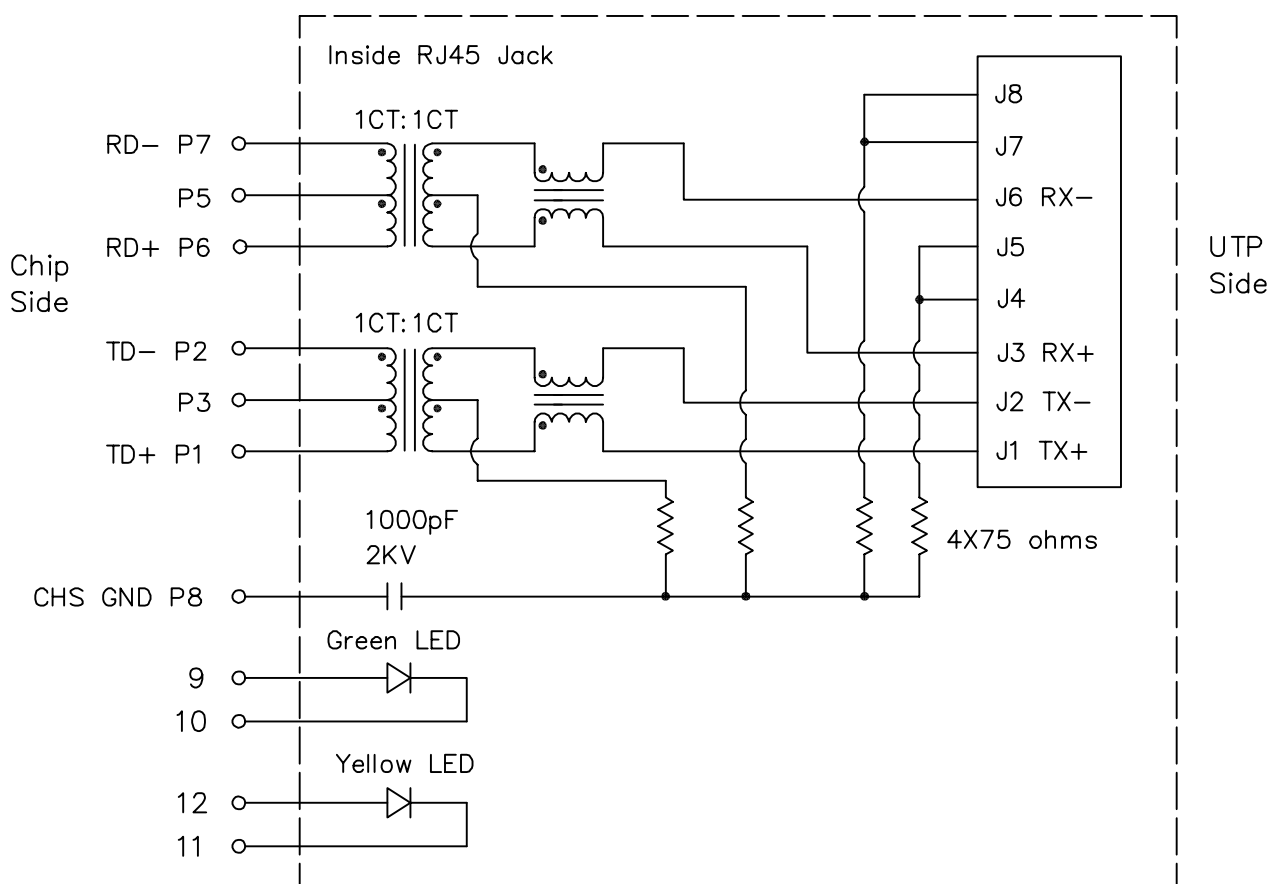
Notes: Connect CHS GND to PCB Ground

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- RoHS Compliant (Pb Free)
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3ab standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to place on PCB, Higher reliability and yields
- UL Recognized Component: File # E330599

Mechanical Dimensions:

Yellow LED   Green LED
Left LED   Right LED

J8   J1

A
16.00
(Top View)

C
16.90

B
16.82

3.89

4.20
6.73

D
3.00±0.50

(Side View)

9 10   11 12

1 3 5 7
2 4 6 8

(Bottom View)

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YYWW   cᴿᵁˡᵁˢ

(Front View)

Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Green	568nm	1.8V/2.8V	20mA	squareness
Yellow	585nm	1.8V/2.8V	20mA	squareness

Dimensions in mm
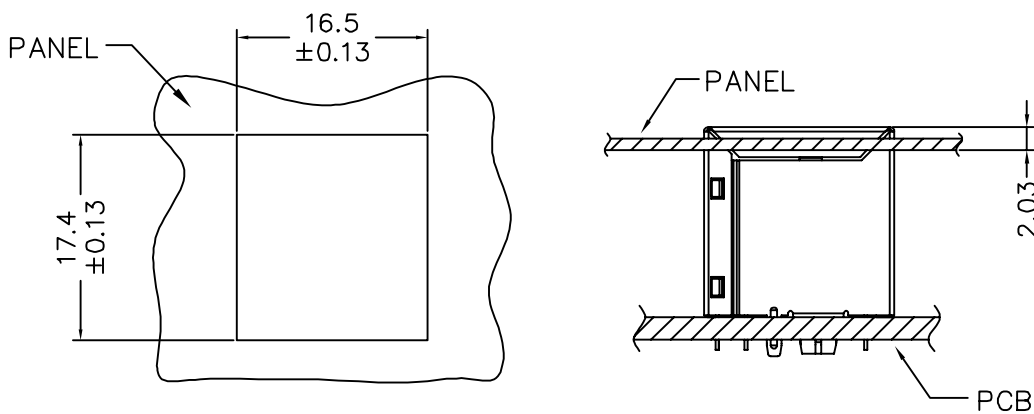Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

Specifications subject to change without notice . Refer to the approval sheet for lastly edition.

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Mechanical Dimensions:

Ø1.02X4
LED PIN

16.00
12.65
11.43
7.67

6.73
4.20
3.89
16.82
8.89
2.54

12 11   10 9

7 5 3 1
8 6 4 2

Ø3.25X2
Ø1.63X2
Ø0.89X10

0.64
2.54

15.80
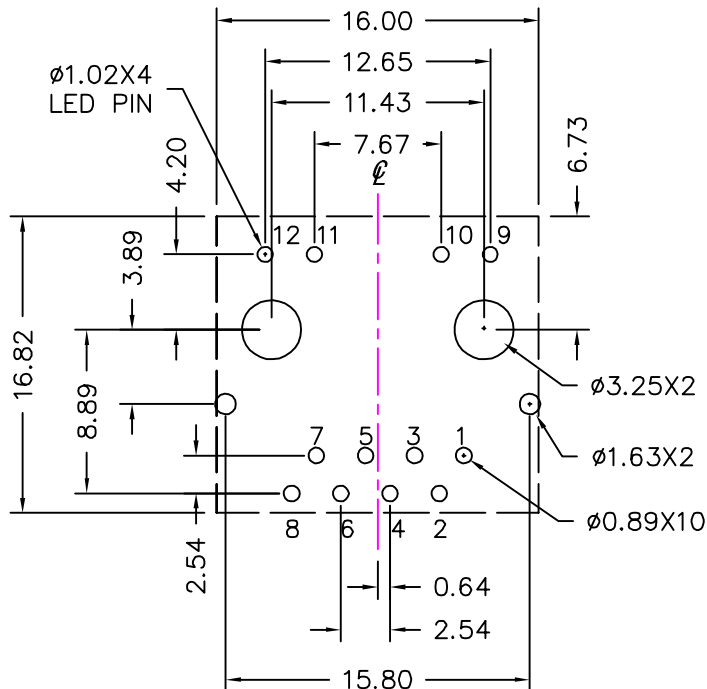
Recommended PCB layout (Component Side View)
All dimension tolerance are ±0.08 unless otherwise specified

Suggested Panel Cutout:

PANEL

16.5
±0.13

17.4
±0.13

PANEL

2.03

PCB

SUGGESTED PANEL OPENING

Dimensions in mm
Unless otherwise specified, Tolerance: .xx ±0.25
REV.: 00

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Material Specification:

Housing: PA66 GF Black UL94V−0
Shield: 30u" Nickel over 0.20mm Thickness Brass
Insert: PA66 GF Black UL94V−0
        Phosphor Bronze 0.35mm Thickness
        Plating Area, 30u" gold over 50u" nickel
        Solder Area, 100u" tin over 50u" nickel
Contact pin: PA66 GF Black UL94V−0
        Phosphor Bronze; 100u" Tinning

Mechanical Performance:

Contact resistance: 30 mΩ Maximum
Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: 0℃ ~ +70℃
Storage Temperature Range: −40℃ ~ +85℃

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