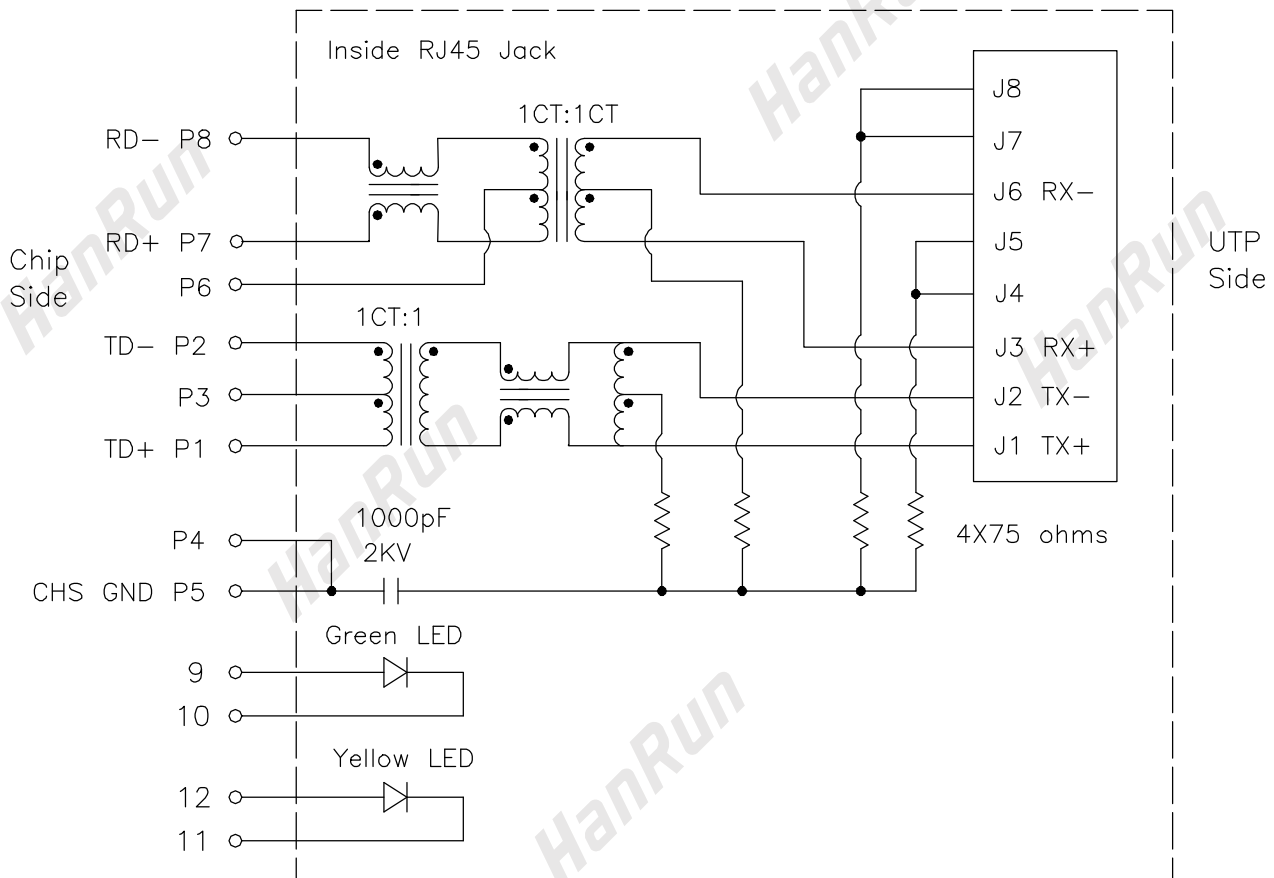# HanRun®
Electronics Company Limited

HR911103A

Electrical Specification @25°C

Operating Temperature Range: 0°C ~ +70°C

Isolation: 2250Vdc 0.5mA 60sec (UTP Side to Chip Side)

OCL: 350uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: −1.0dB Maximum @300KHz ~ 100MHz

Return Loss: −20dB Minimum @1MHz ~ 10MHz / −16dB Minimum @10MHz ~ 30MHz
　　　　　−12dB Minimum @30MHz ~ 60MHz / −10dB Minimum @60MHz ~ 80MHz

Common Mode Rejection: −30dB Minimum @1MHz ~ 50MHz
　　　　　　　　　−20dB Minimum @50MHz ~ 150MHz

Crosstalk: −40dB Minimum @1MHz ~ 30MHz / −35dB Minimum @30MHz ~ 60MHz
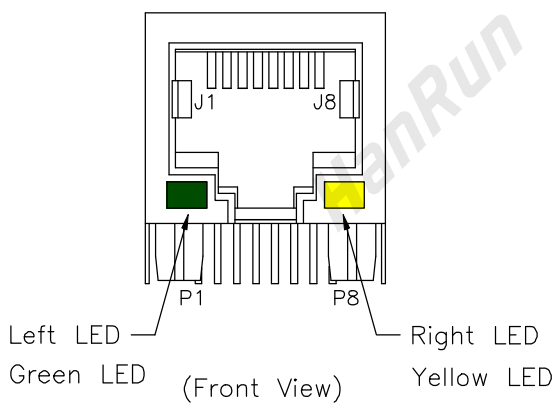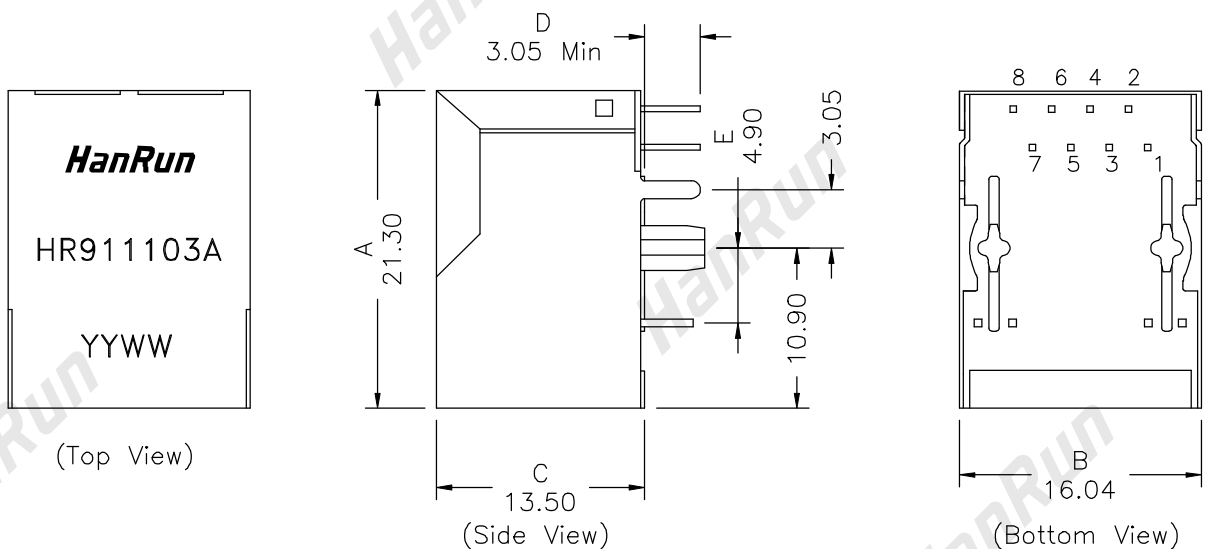　　　　−30dB Minimum @60MHz ~ 100MHz

Schematics

Notes: Connect CHS GND to PCB Ground

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

Single Port RJ45 Connector
with Magnetics Module and LED

HanRun®
Electronics Company Limited

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- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3 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

Mechanical Dimensions:

HanRun
HR911103A
YYWW

(Top View)

D
3.05 Min

E 4.90

3.05

A 21.30

10.90

C
13.50
(Side View)

8 6 4 2
7 5 3 1

B
16.04
(Bottom View)

J1   J8

P1   P8

Left LED
Green LED   (Front View)   Right LED
Yellow LED

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.: A/3

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

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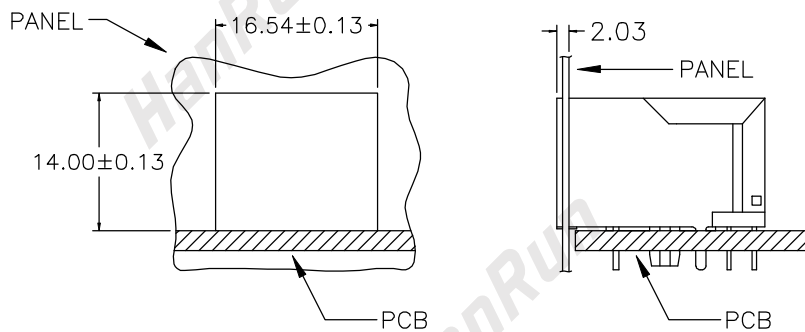Electronics Company Limited

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PCB Layout:

ø1.02X4
LED PIN
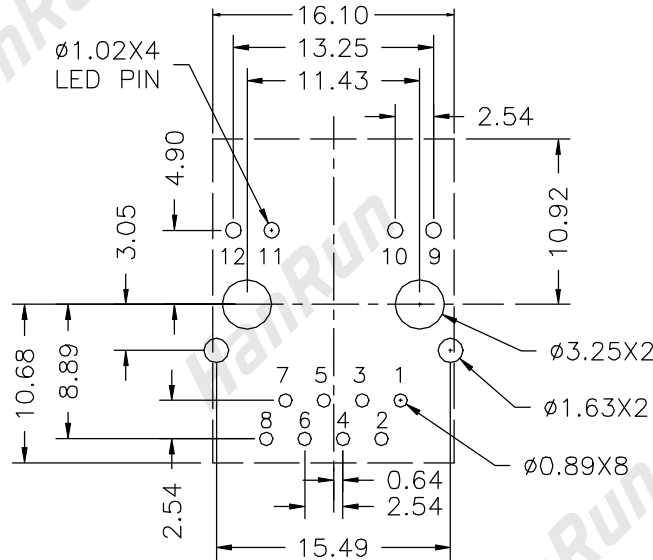
Recommended PCB layout (Component Side View)
All dimension tolerance are ±0.08 unless otherwise specified

Suggested Panel Cutout:

SUGGESTED PANEL OPENING

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: A/3

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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-lead over, 50u" nickel

Mechanical Performance:

Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Plug to Jack Retention force: 20 lbs Minimum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: 0°C ~ +70°C
Storage Temperature Range: -40°C ~ +85°C

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

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