

# Electrical Specification @25°C

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

Isolation: 1500Vrms 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  $\sim 10$ MHz / -16dB Minimum @10MHz  $\sim 30$ MHz -12dB Minimum @30MHz  $\sim 60$ MHz / -10dB Minimum @60MHz  $\sim 80$ MHz

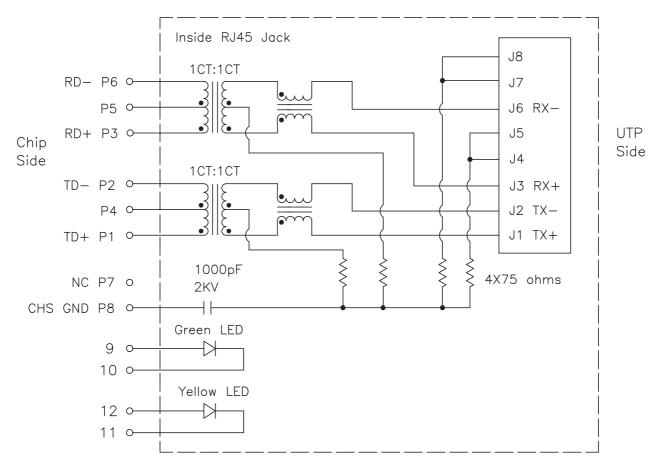
Common Mode Rejection: -30dB Minimum @1MHz  $\sim 50$ MHz

−20dB Minimum @50MHz ~ 150MHz

Crosstalk: -40 dB Minimum @1MHz  $\sim$  30MHz / -35 dB Minimum @30MHz  $\sim$  60MHz

−30dB Minimum @60MHz ~ 100MHz

#### **Schematics**



Notes: Connect CHS GND to PCB Ground

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Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town, Zhongshan City, Guangdong Province, China
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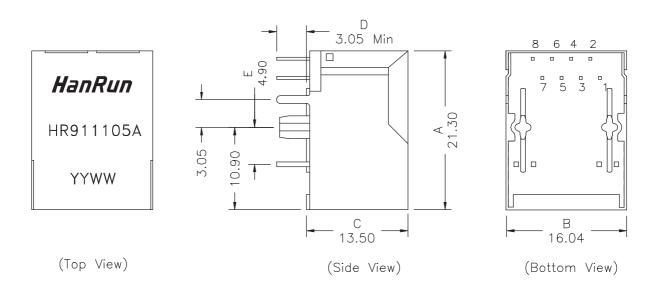
Tel: (0760)22126805 22132332 Fax: (0760)22132339 Post code: 528416 E-Mail: sales@hanrun.com http://www.hanrun.com

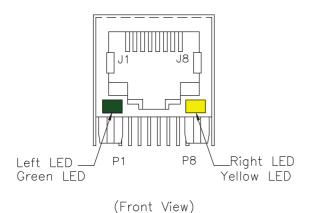
Specifications subject to change without notice. Refer to the approval sheet for lastly edition.



- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3 standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 1500Vrms isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

#### Mechanical Dimensions:





Standard	Wavelength	Forward	Forward	Туре
LED		(Min/Max)	А	
		(WIIII) WIGA)		
Green	568nm	1.8V/2.8V	20mA	squareness
Yellow	585nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

Unless otherwise specified, Tolerance: .xx  $\pm 0.25$ 

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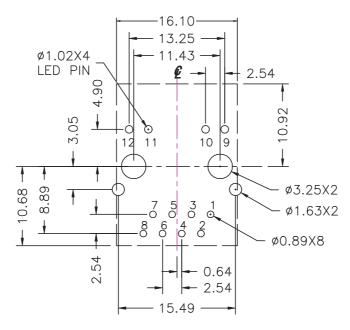
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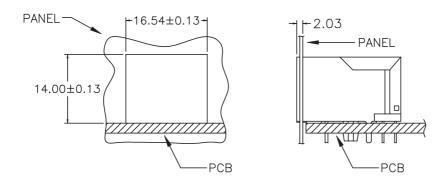


## PCB Layout:



Recommended PCB layout (Component Side View) All dimension tolerance are  $\pm 0.08$  unless otherwise specified

## Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm

Unless otherwise specified, Tolerance: .xx  $\pm 0.25$ 

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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

#### 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 conditions:

Operating Temperature Range:  $0^{\circ}$ C  $\sim +70^{\circ}$ C Storage Temperature Range:  $-40^{\circ}$ C  $\sim +85^{\circ}$ C

Storage Humidity: 30% to 85%