

# Electrical Specification @25°C

RoHS Compliant (PB Free)

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

OCL: 350uH Minimum @100KHz 100mV with 8mADC Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

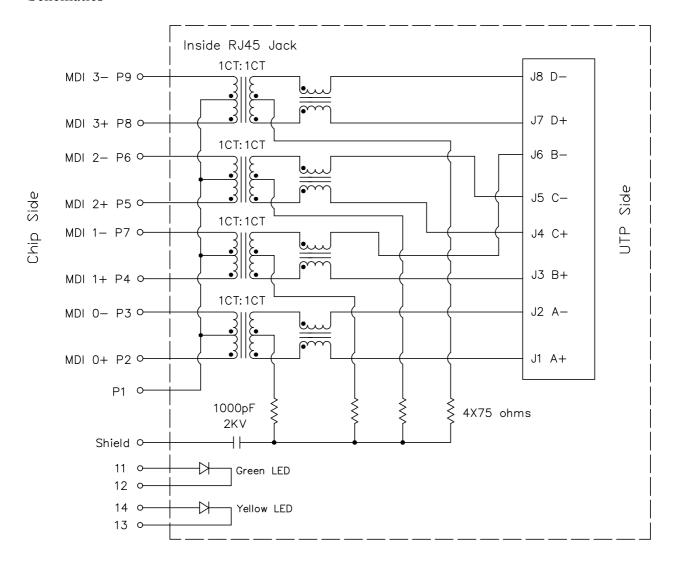
Return Loss: -18dB Minimum @1MHz  $\sim 30MHz$  / -13.5dB Minimum @30MHz  $\sim 60MHz$ 

-12dB Minimum @60MHz  $\sim$  80MHz / -10dB Minimum @80MHz  $\sim$  100MHz

Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

Crosstalk: -30dB Minimum @1MHz  $\sim 60$ MHz / -26dB Minimum @60MHz  $\sim 100$ MHz

#### **Schematics**



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### Commercial standards, specifications and Summary:

RoHS Compliant (Pb Free)

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

## Material Specification:

Housing: PBT GF Black UL94V-0

Shield: 50u" 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

RJ45 Contact pin: PA66 GF Black UL94V-0

Brass; 100u" Tinning

LED Conductor: PC Transparent UL94V-0

#### Mechanical Performance:

Contact resistance:  $30 \text{ m}\Omega$  Maximum

Mating force: 5 lbs Maximum Unmating force: 5 lbs Maximum Operating life: 750 Cycles Minimum

#### Operating and Storage Temperature:

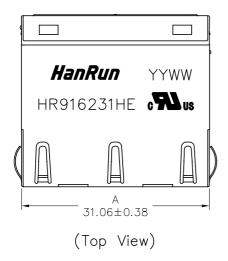
Operating Temperature Range: −40°C ~ +85°C Storage Temperature Range: −40°C ~ +85°C

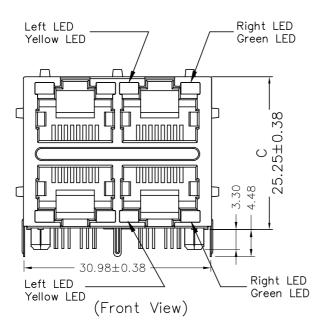
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E-Mail: sales@hanrun.com http://www.hanrun.com

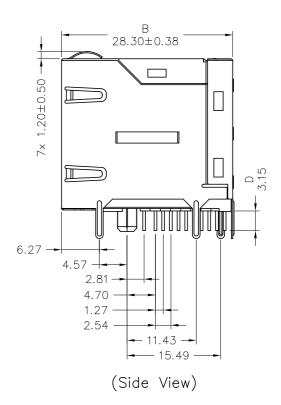


#### Mechanical Dimensions:





Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Туре
Yellow	586nm	1.8V/2.8V	20mA	squareness
Green	568nm	1.8V/2.8V	20mA	squareness



Dimensions in mm

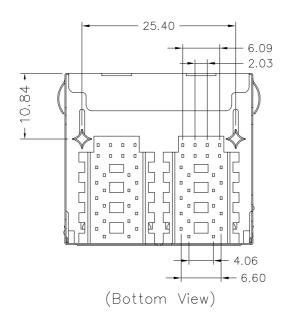
Unless otherwise specified, Tolerance: .xx  $\pm 0.25$ 

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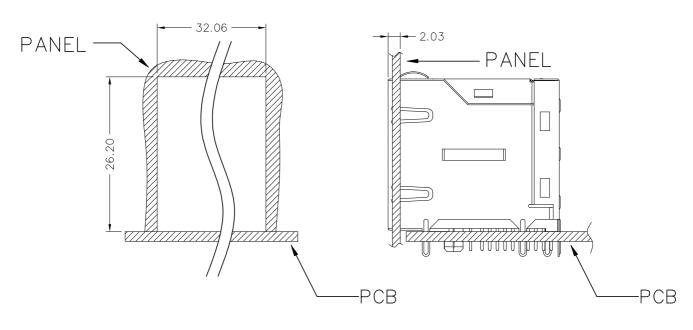
Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town, Zhongshan City, Guangdong Province, China Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416

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# Suggested Panel Cutout:



SUGGESTED PANEL CUTOUT

Dimensions in mm

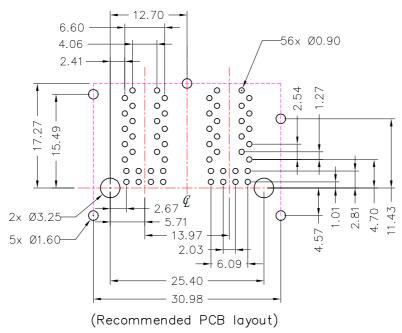
Unless otherwise specified, Tolerance: .xx  $\pm 0.25$ 

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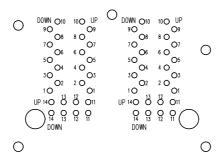


## PCB Layout:



All dimension tolerance are  $\pm 0.08$  unless otherwise specified

### Pin Assignments:



Dimensions in mm

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

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