

Electrical Specification @25°C

Isolation: 1500Vrms 0.5mA 60sec (UTP Side to Chip Side)

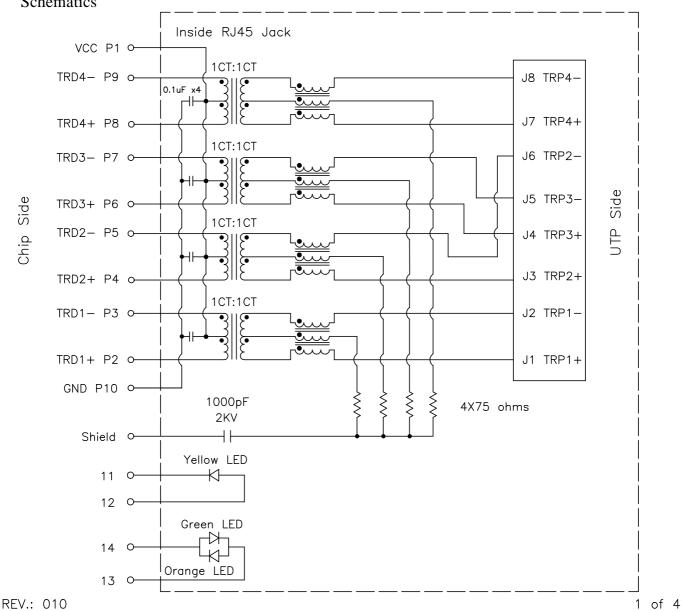
OCL: 350uH Minimum @100KHz 100mV with 8mADC Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

Return Loss: -16dB Minimum @1MHz \sim 30MHz / -13.5dB Minimum @30MHz \sim 60MHz

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

CMR: -30dB Minimum @1MHz ~ 100MHz Crosstalk: −30dB Minimum @1MHz ~ 100MHz

Schematics



Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town, Zhongshan City, Guangdong Province, China

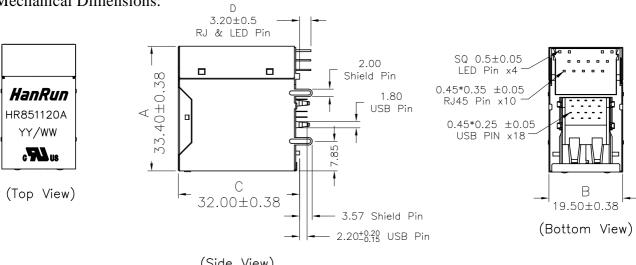
Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416

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

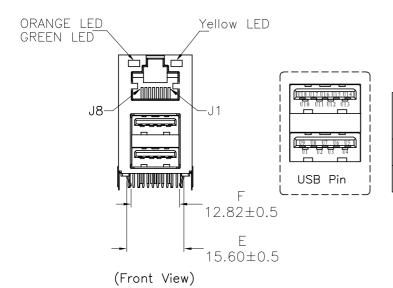


- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3ab standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 1500Vrms isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic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

Mechanical Dimensions:



(Side View)



Standard LED	Wavelength	Forward V (Min/Max)	Forward A
Green/Orange	568nm/600nm	1.8V/2.8V	20mA
Yellow	585nm	1.8V/2.8V	20mA

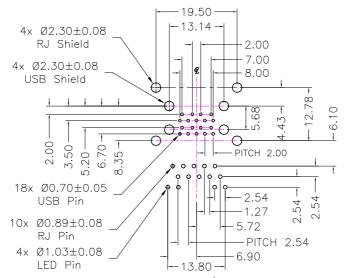
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

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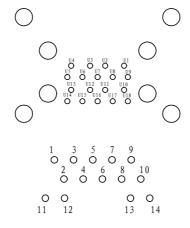
PCB Layout:

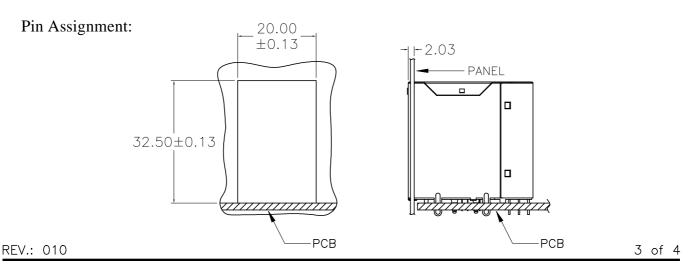


Recommended PCB layout (Component Side View)

All dimension tolerance are ± 0.08 unless otherwise specified

Pin Assignment:





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Material Specification:

RJ Housing: PBT GF Black UL94V-0

RJ Shield: 30u" Nickel over 0.20mm Thickness Brass

RJ 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

RJ Contact pin: PA66 GF Black UL94V-0

Phosphor Bronze 0.35mm Thickness

100u" tin plating with nickel underplating

LED Conductor: PC Transparent UL94V-0

USB Contact: Phosphor Bronze

15u" Gold plating on contact area 100u" tin plating on solder tails 50u" nickel underplating overall

USB Shield: Brass, 80u" nickel plated over all

USB Housing: PA46 GF Blue UL94V-0

Mechanical Performance:

RJ Mating force: 5 lbs Maximum
RJ Unmating force: 5 lbs Maximum
RJ Operating life: 750 Cycles Minimum
USB Mating force: 7.868 lbs Maximum
USB Unmating force: 2.248 lbs Minimum
USB Operating life: 1500 Cycles Minimum

Operating and Storage Temperature:

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

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