

HR981189C

Electrical Specification @25°C

RoHS Compliant (PB Free)

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

OCL: 180uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: -1.0dB Maximum @300KHz ~ 100MHz / -1.25 Maximum @100MHz ~ 250MHz

Return Loss: -20dB Minimum @1MHz ~ 40MHz / -18dB Minimum @40MHz ~ 60MHz

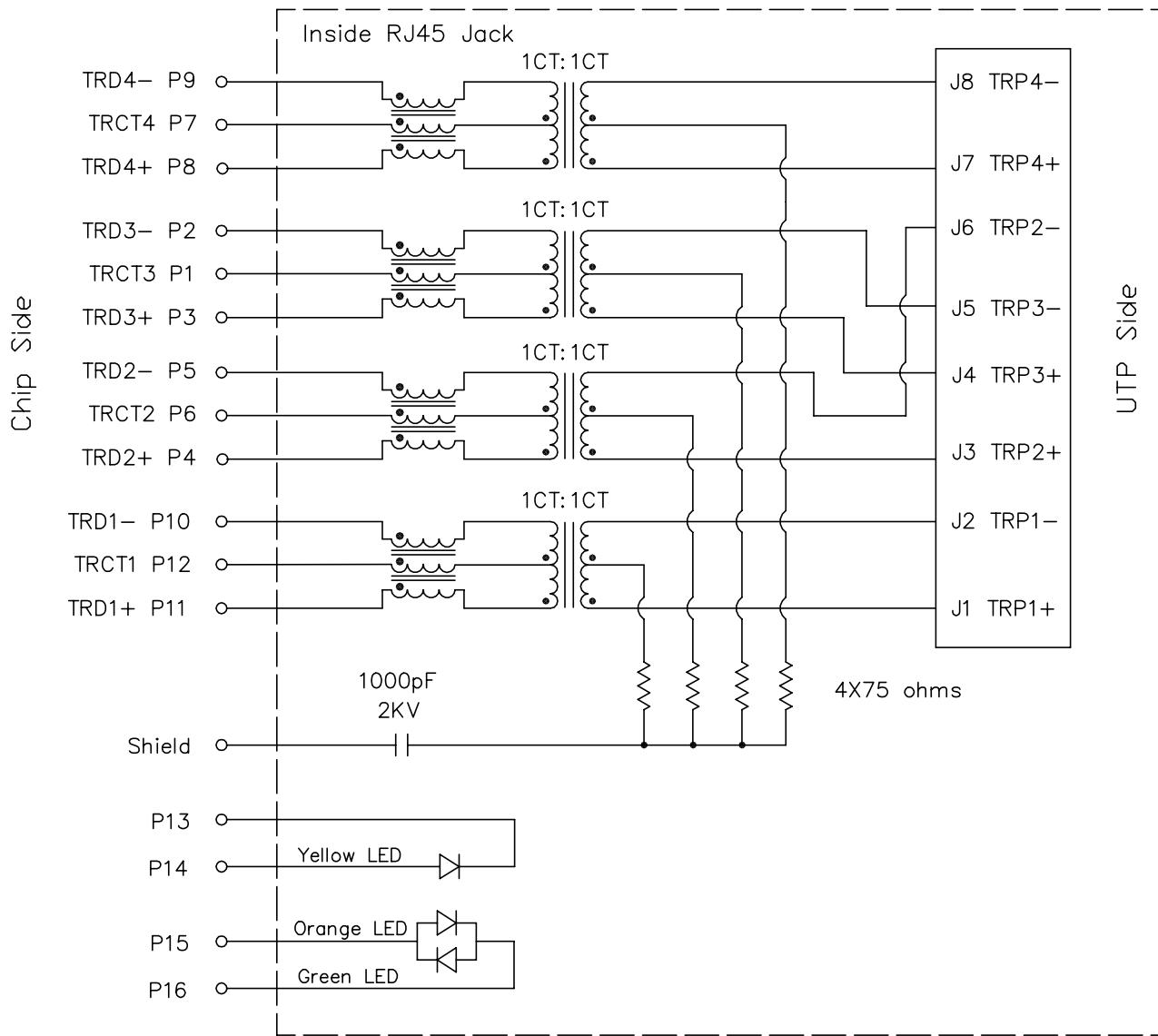
-16dB Minimum @60MHz ~ 80MHz / -14dB Minimum @80MHz ~ 100MHz

-12dB Minimum @100MHz ~ 150MHz / -9dB Minimum @150MHz ~ 250MHz

Common to Differential Mode Rejection: -30dB Minimum 1MHz ~ 250MHz

Crosstalk: -30dB Minimum 1MHz ~ 100MHz / -25dB Minimum 100MHz ~ 250MHz

Schematics



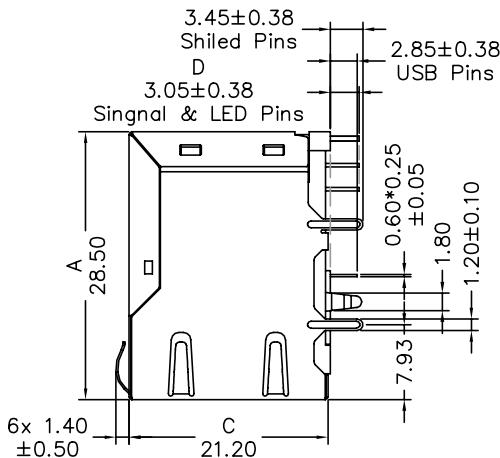
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- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3bz standards including 180uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

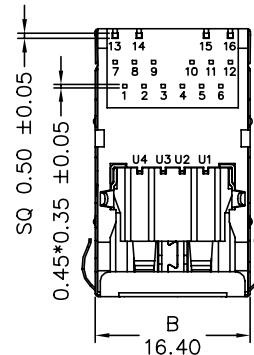
Mechanical Dimensions:



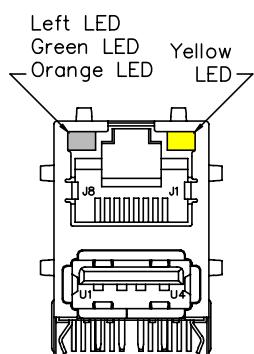
(Top View)



(Side View)



(Bottom View)



(Front View)

Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Green/Orange	568nm/600nm	1.8V/2.8V	20mA	squareness
Yellow	586nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 01

2 of 4

Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,

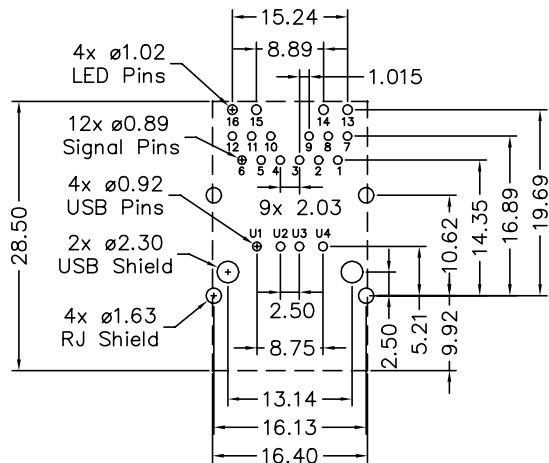
Zhongshan City, Guangdong Province, China

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

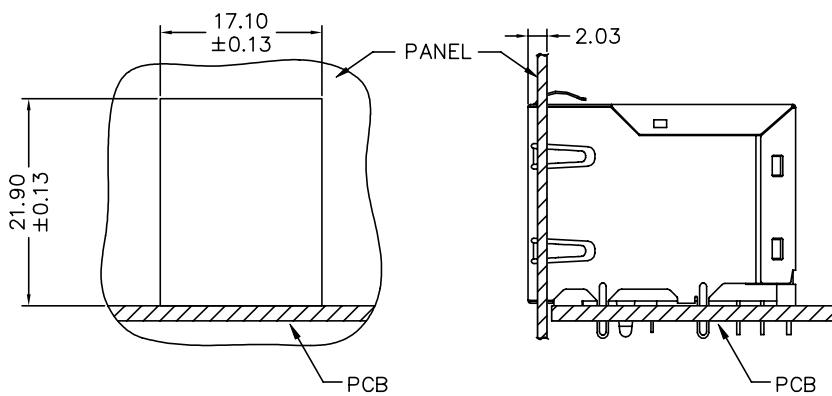
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PCB Layout:



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

Suggested Panel Cutout:



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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

USB Contact: Phosphor Bronze

 30u" 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: PBT GF Black 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 ~ +70°C

Storage Temperature Range: -40°C ~ +85°C