

HY981106A

Electrical Specification @25°C

RoHS Compliant (PB Free)

Flammability: UL94V-0

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 ~ 10MHz / -16dB Minimum @10MHz ~ 30MHz
-12dB Minimum @30MHz ~ 60MHz / -10dB Minimum @60MHz ~ 80MHz

Common Mode Rejection: -30dB Minimum @1MHz ~ 50MHz

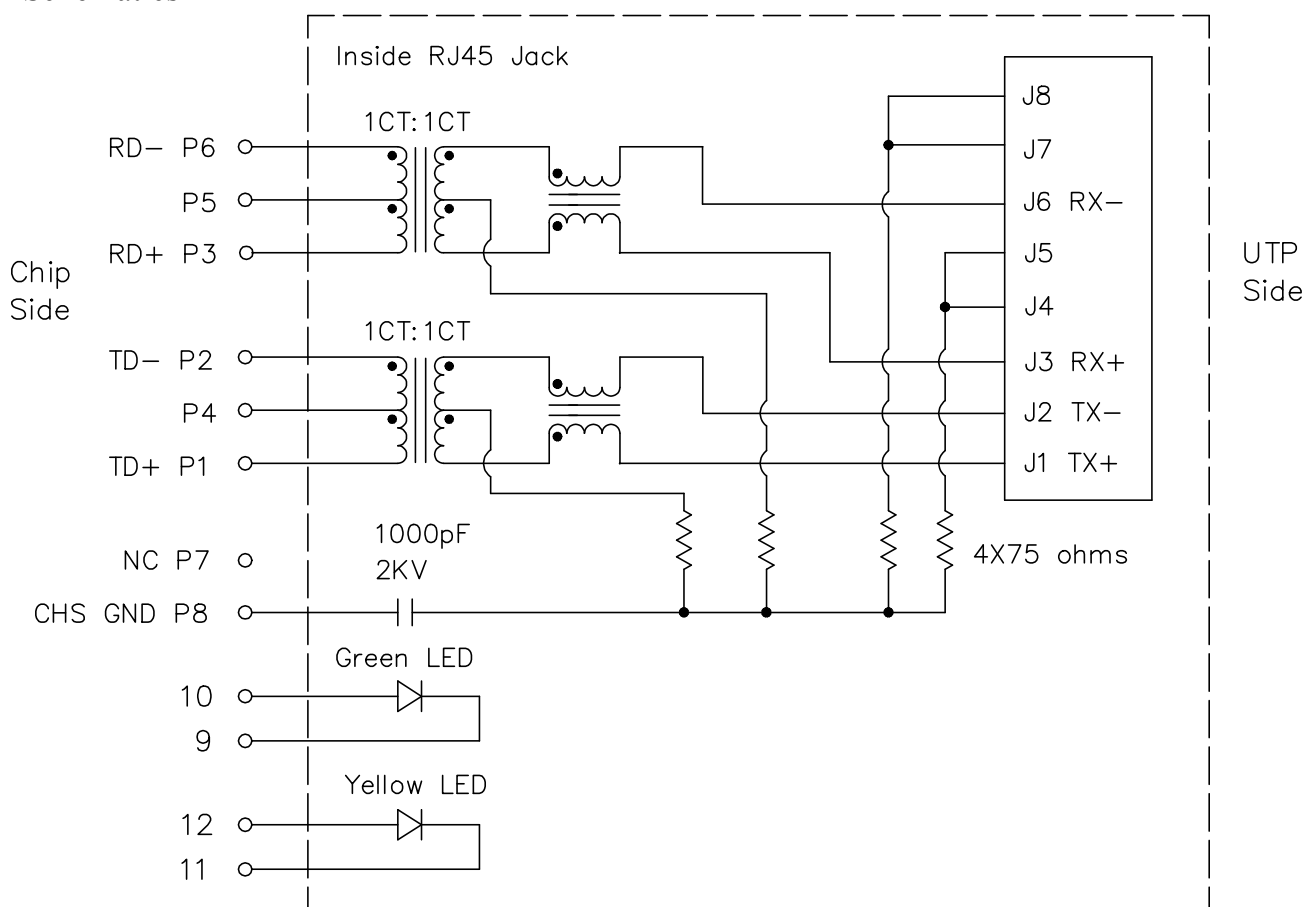
-20dB Minimum @50MHz ~ 150MHz

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

-30dB Minimum @60MHz ~ 100MHz

UL Recognized Component: File # E330599

Schematics

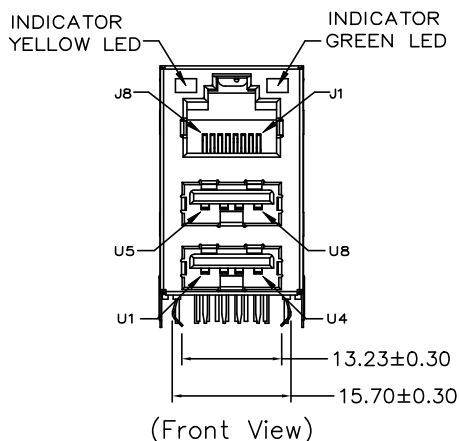
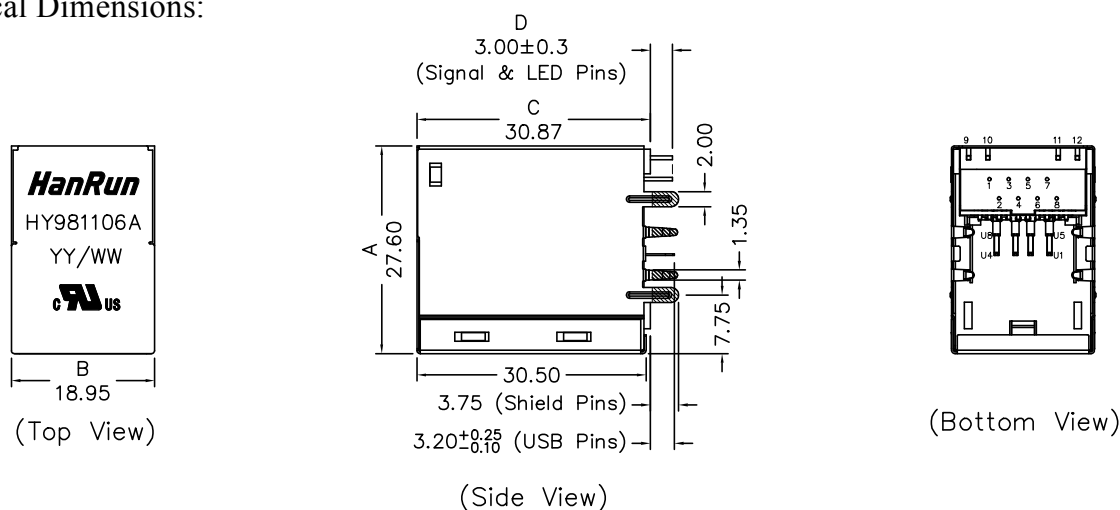


Notes: Connect CHS GND to PCB Ground

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- RoHS Compliant (PB Free)
- 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 1500Vrms 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

Mechanical Dimensions:



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

Dimensions in mm

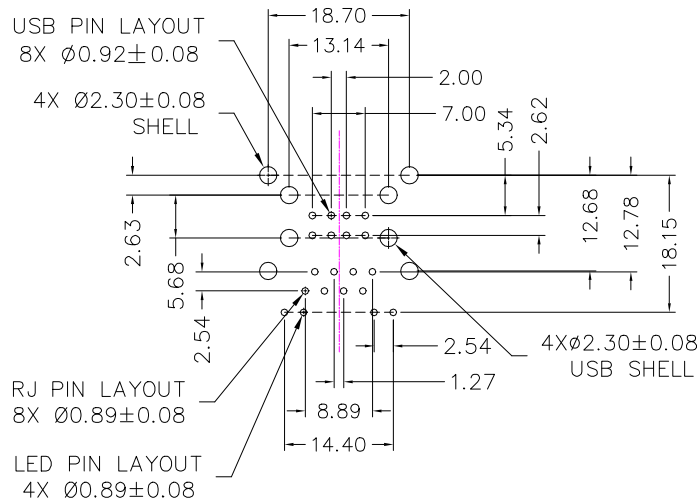
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 07

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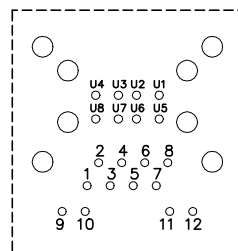
PCB Layout:



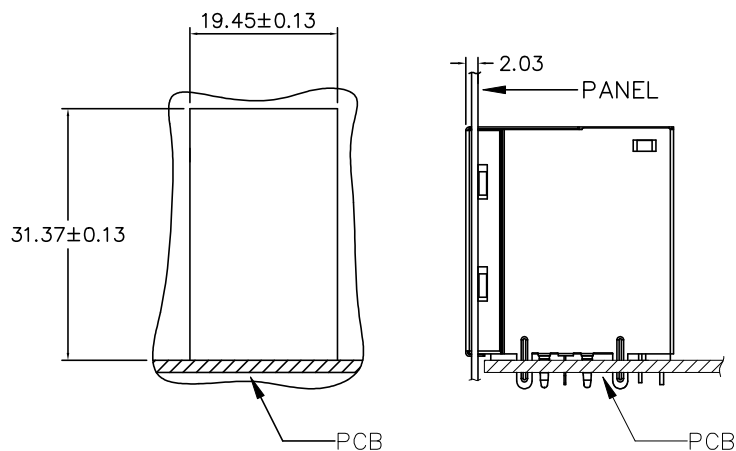
Recommended PCB layout (Component Side View)

All dimension tolerance are ± 0.08 unless otherwise specified

Pin Assignments:



Suggested Panel Cutout:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.: 07

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Material Specification:

Housing: PBT GF Black UL94V-0
Back Cover: PBT GF Black UL94V-0
Front Shield: Stainless Steel, unplating, 0.25mm Thickness
Back Shield: Brass, 50u" Nickel, 0.20mm Thickness
Insert: Phenolic GF Black UL94V-0
CP wire, 120u" tin over 50u" nickel
RJ Terminal: Phosphor Bronze, 0.35mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel
USB Terminal: Brass, 0.20mm Thickness
Plating Area, 6u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel

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