

HY981161C

Electrical Specification @25°C

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

OCL: 350uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz. Impedance 100 ohm

Return Loss: -18dB Minimum @1MHz ~ 30MHz. load 100 ohm

-12dB Minimum @30MHz ~ 60MHz. load 100 ohm

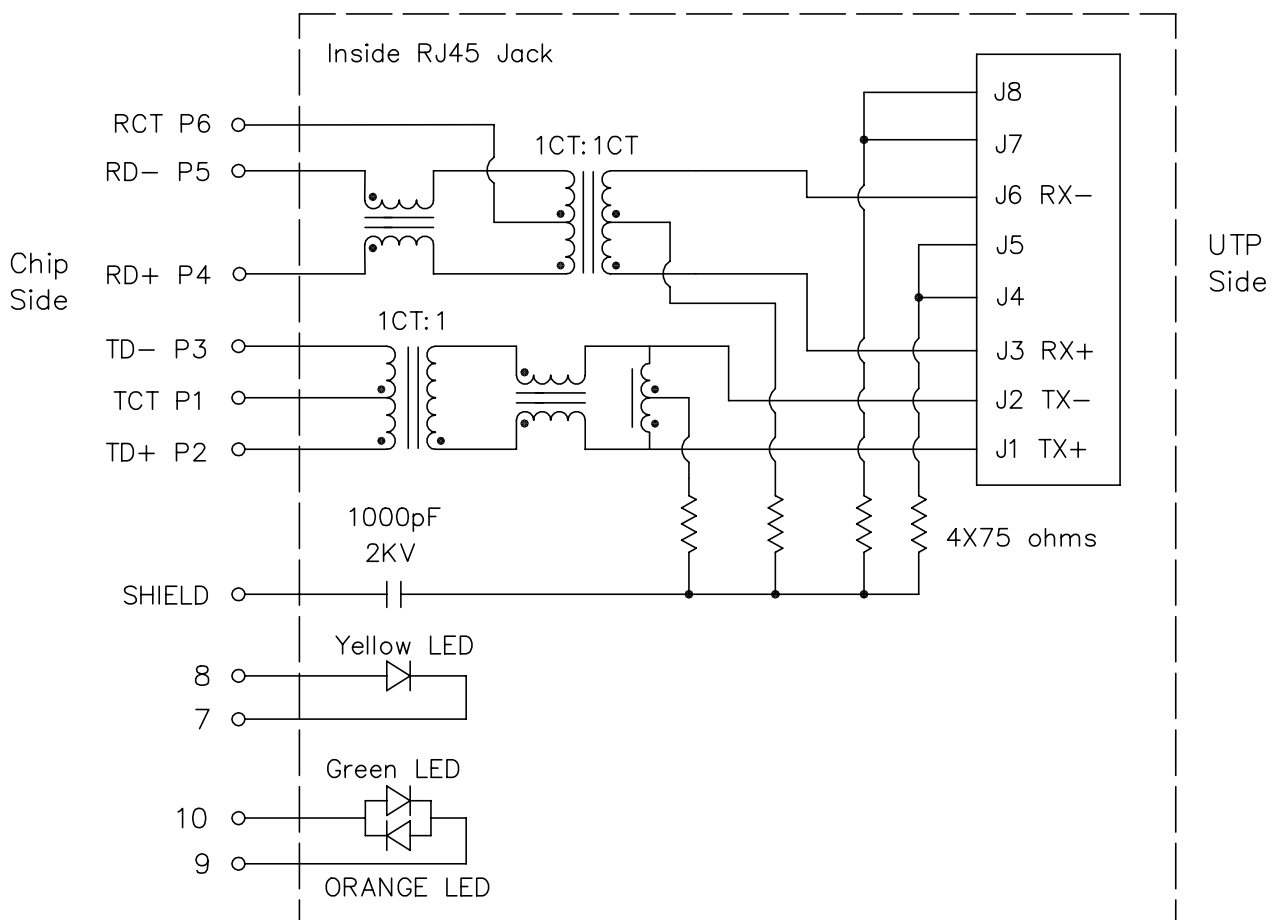
-10dB Minimum @60MHz ~ 80MHz. load 100 ohm

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

Differential to Common Mode Rejection: -35dB Minimum @100KHz ~ 100MHz

Crosstalk: -30dB Minimum @100KHz ~ 100MHz

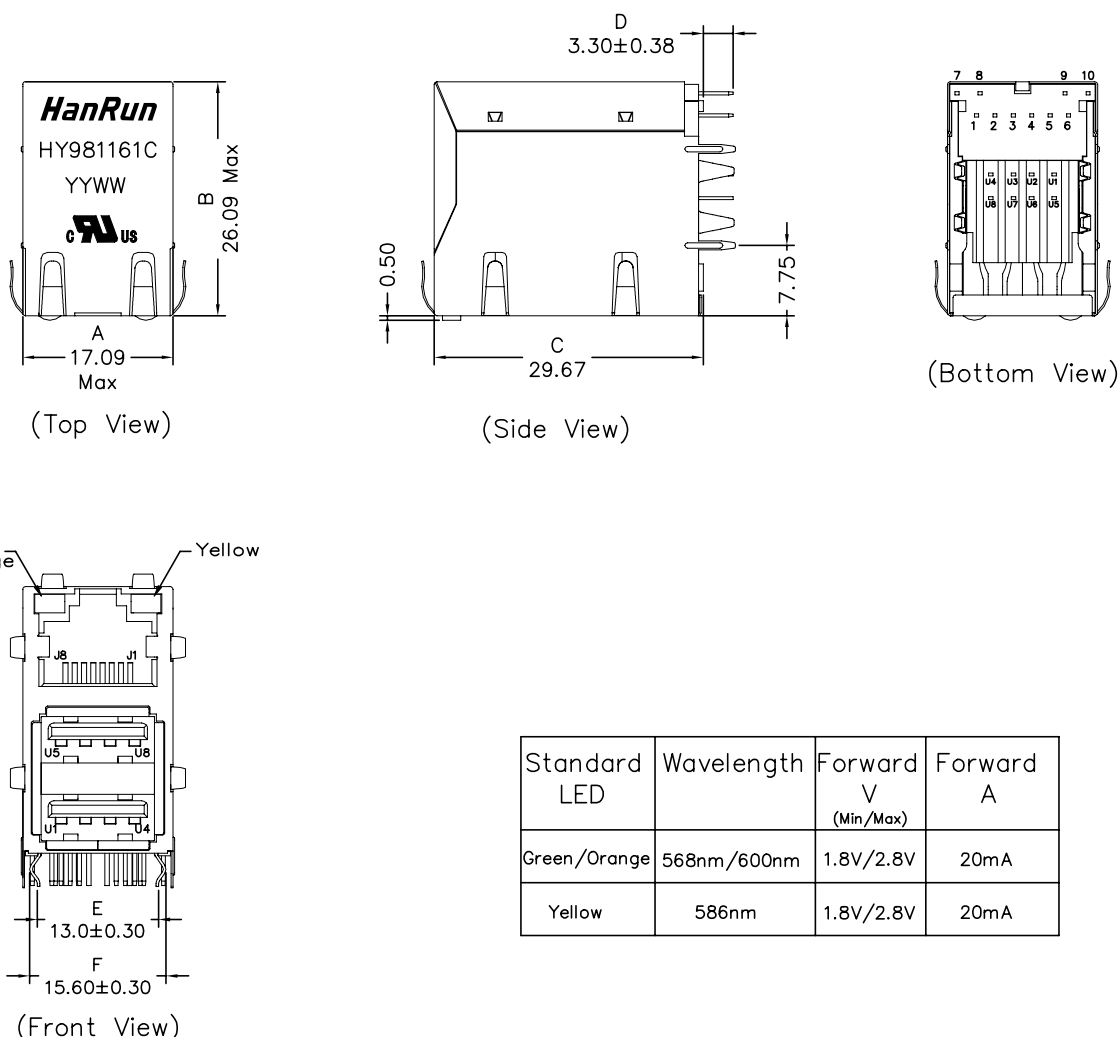
Schematics



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- RoHS Compliant (PB Free)
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3u 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

Mechanical Dimensions:



Dimensions in mm

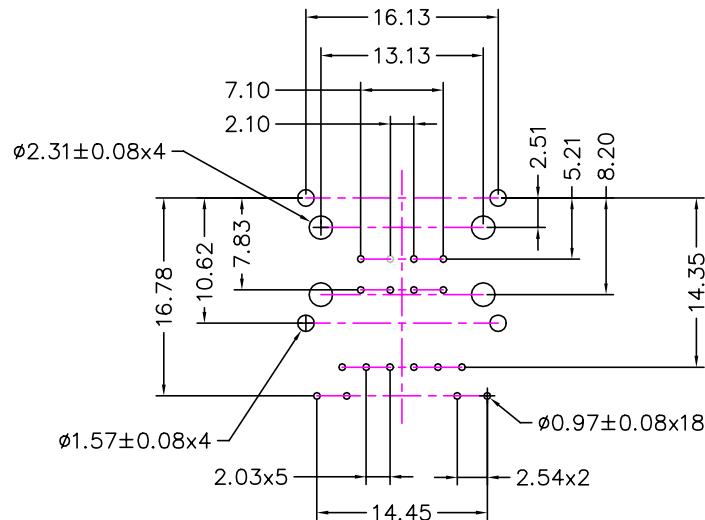
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: E

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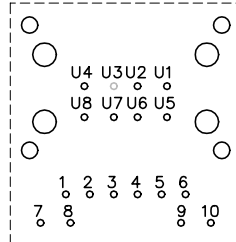
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PCB Layout:

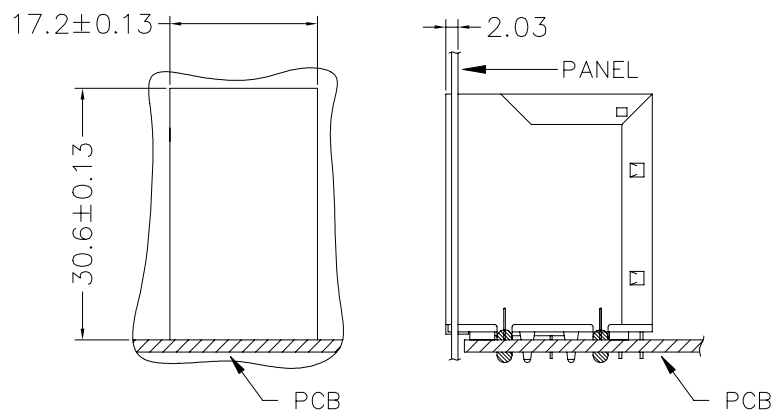


Recommended PCB layout (Component Side View)
All dimension tolerance are ± 0.08 unless otherwise specified

Pin Assignments:



Suggested Panel Cutout:



Dimensions in mm

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

REV.: E

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Material Specification:

Housing: PBT+30%GF Black per UL 94V-0
Shield: 50 micro-inch Nickel over 0.01 inch copper alloy
RJ Insert: PA66 GF Black UL94V-0
 Contact: Phosphor Bronze, base material
 Plating Area, 30u" gold over, 50u" nickel
 Solder Area, 100u" tin over, 50u" nickel
Light Pipe: PC UL 94V-0
USB Shield: 100u" Nickel over 0.30mm Thickness Brass
USB Insert: Brass 0.25mm Thickness
 Plating Area, 1u" 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 Plug to Jack Retention force: 20 lbs Minimum
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