

HR915771A

Electrical Specification @25°C

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

OCL: 120uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: -3.0dB Maximum @100KHz ~1MHz / -1.5dB Maximum @1MHz ~ 250MHz
-2.5dB Maximum @250MHz ~ 400MHz / -3.0dB Maximum @400MHz ~ 500MHz

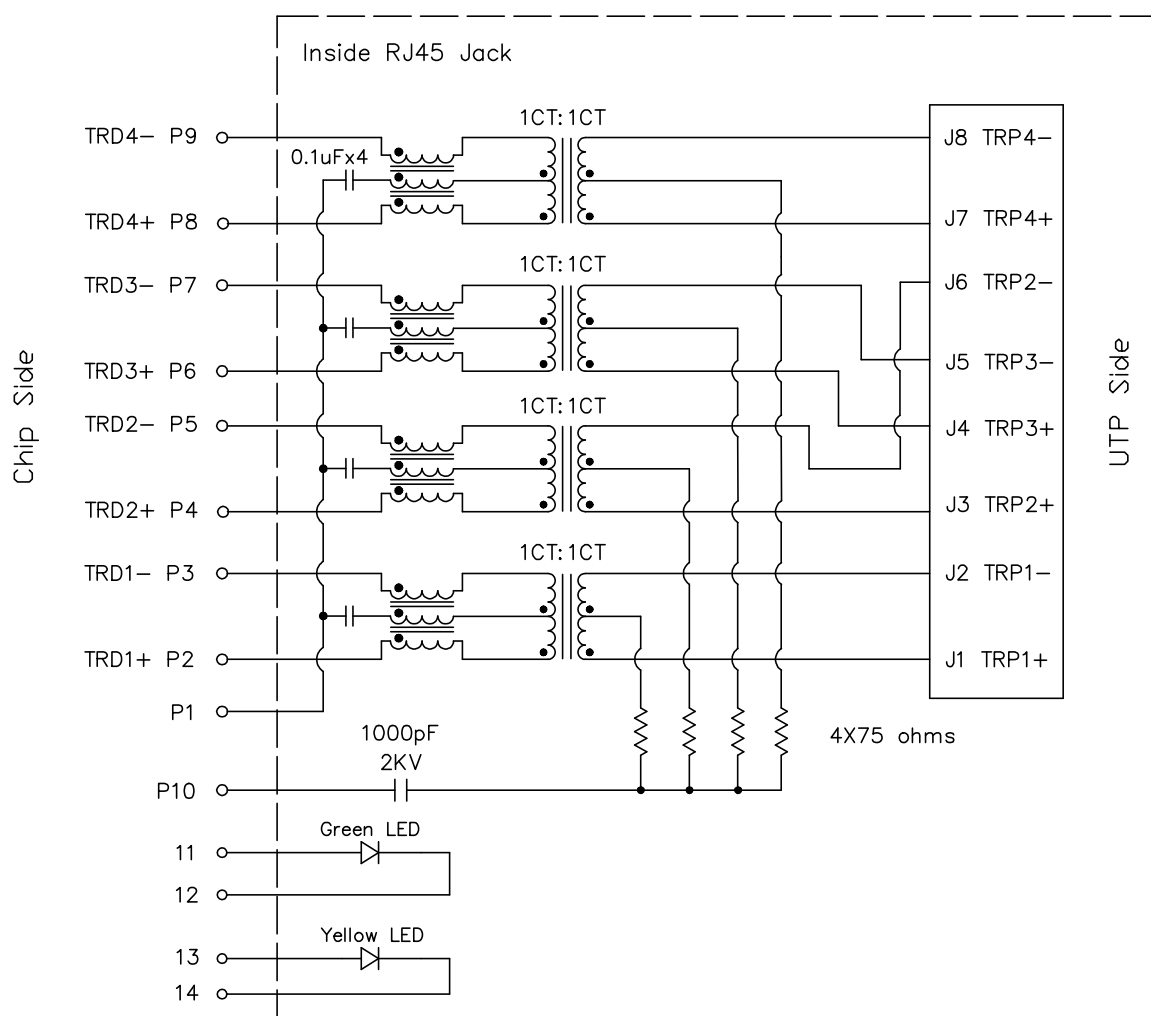
Return Loss: -18dB Minimum @1MHz ~ 40MHz / -14dB Minimum @40MHz ~ 100MHz
-11dB Minimum @100MHz ~ 250MHz / -8dB Minimum @250MHz ~ 500MHz

CMRR: -28dB Minimum @1MHz ~ 100MHz / -22dB Minimum @100MHz ~ 250MHz
-20dB Minimum @250MHz ~ 500MHz

DCMR: -30dB Minimum @1MHz ~ 100MHz / -25dB Minimum @100MHz ~ 250MHz
-20dB Minimum @250MHz ~ 500MHz

Crosstalk: -30dB Minimum @1MHz ~ 100MHz / -20dB Minimum @100MHz ~ 500MHz

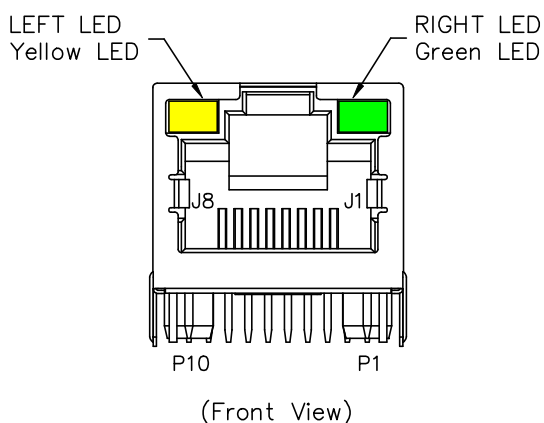
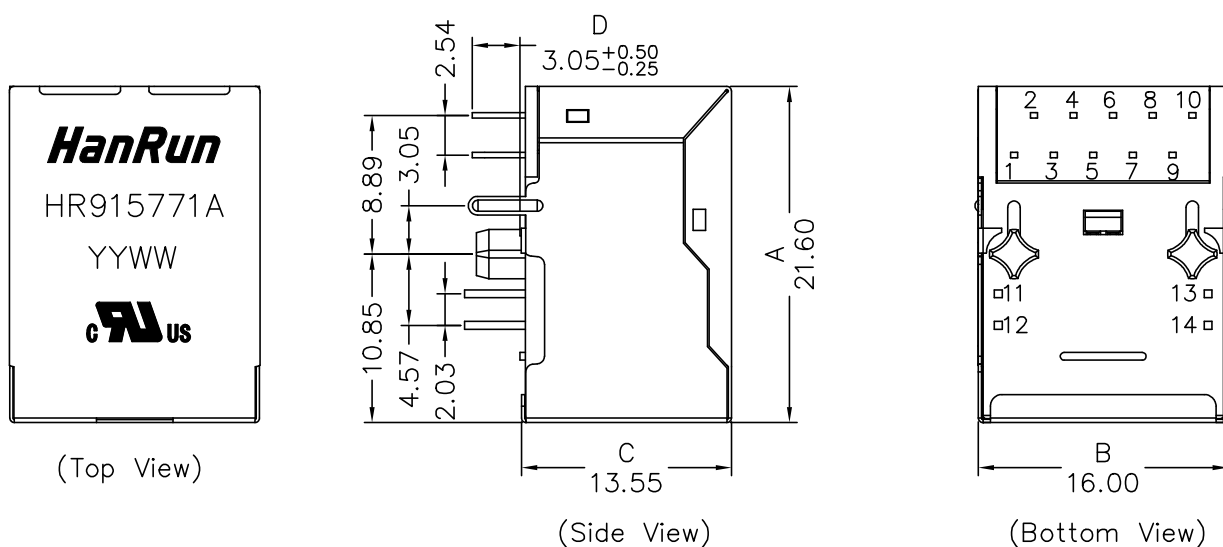
Schematics



HR915771A

- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3an standards
- 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:



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

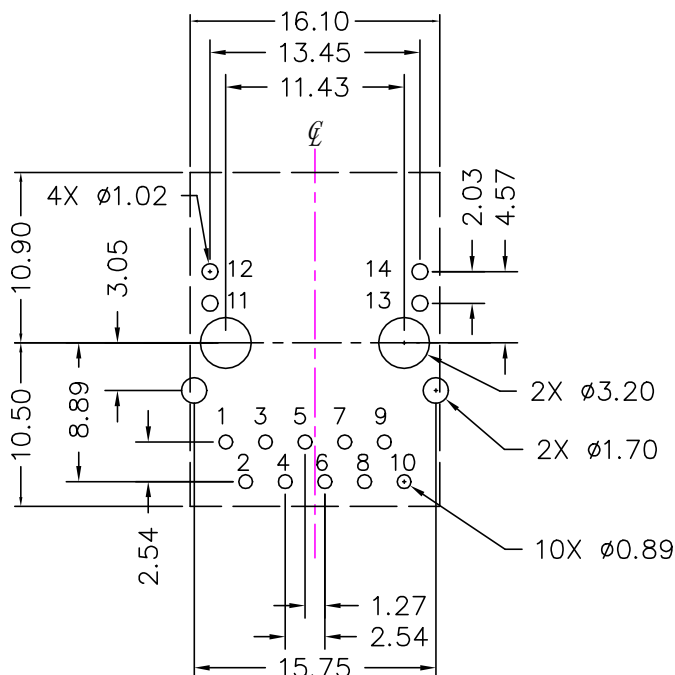
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

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PCB Layout:



All dimension tolerance are ± 0.08 unless otherwise specified

Figure 1 consists of two technical drawings. The left drawing is a top view of a rectangular panel with a wavy, irregular border. It is labeled 'PANEL' with an arrow pointing to the top-left corner. The panel is mounted on a hatched rectangular base labeled 'PCB' with an arrow pointing to the bottom-right corner. Two dimension lines are shown: a horizontal one at the top indicating a width of 16.50 ± 0.13 , and a vertical one on the left indicating a height of 14.05 ± 0.13 . The right drawing is a side view showing the panel's profile. It is labeled 'PANEL' with an arrow pointing to the top surface. Below it is the hatched 'PCB' base. A dimension line at the top indicates a thickness of 2.03. The panel has a stepped profile with a small rectangular feature on its top surface.

SUGGESTED PANEL OPENING

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Material Specification:

Housing: PA66 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

Mechanical Performance:

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

Operating and Storage Temperature:

Operating Temperature Range: 0°C ~ +70°C
Storage Temperature Range: -40°C ~ +85°C