

## HR911105A

### Electrical Specification @25°C

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

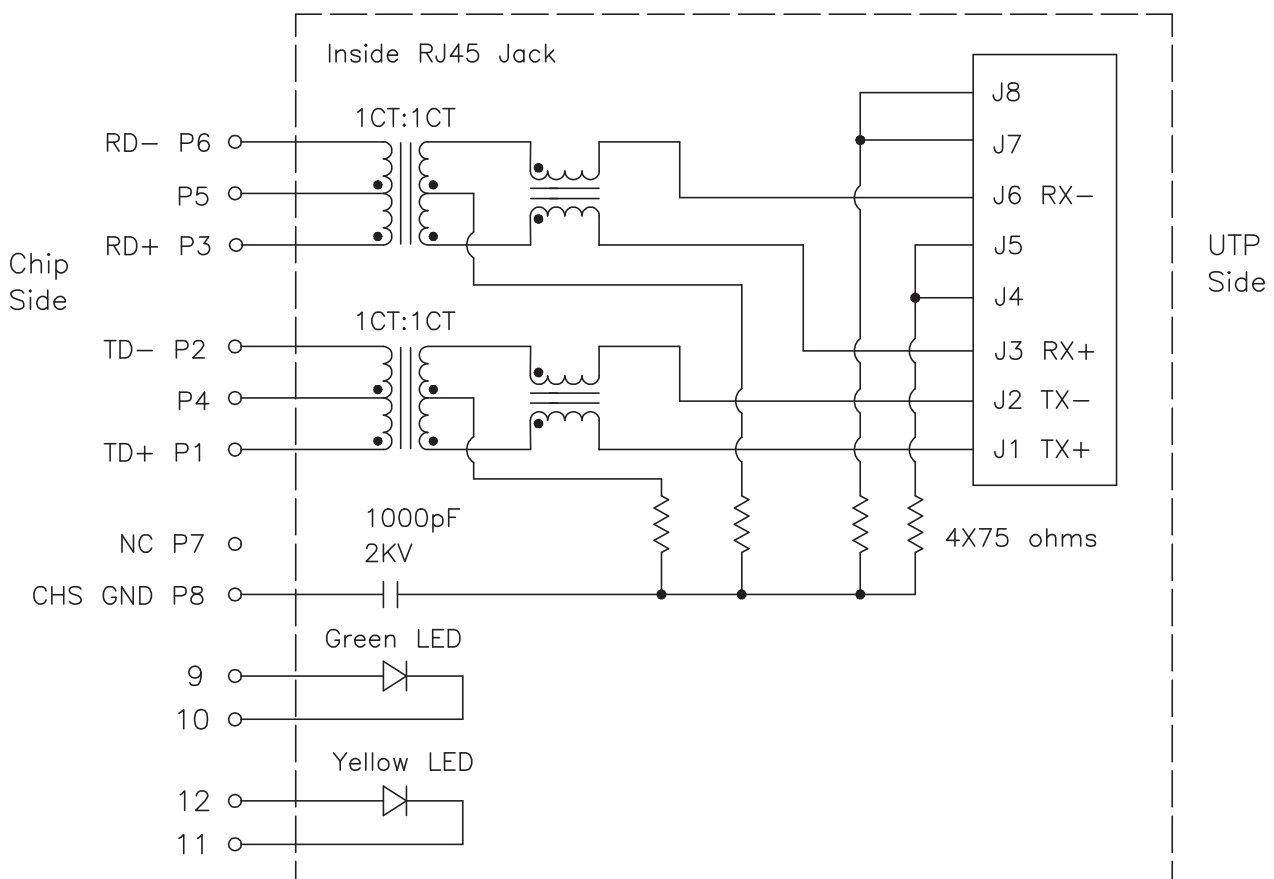
Common Mode Rejection: -30dB Minimum @1MHz ~ 50MHz

-20dB Minimum @50MHz ~ 150MHz

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

-30dB Minimum @60MHz ~ 100MHz

### Schematics

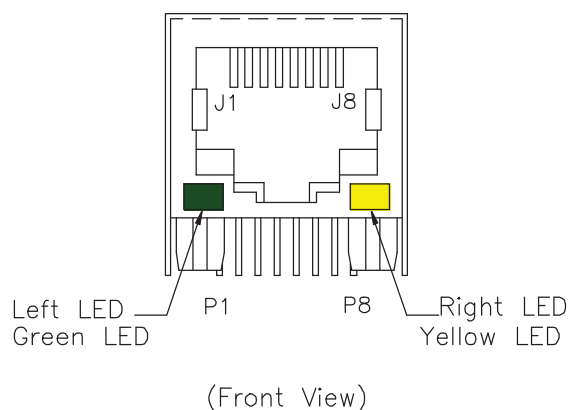
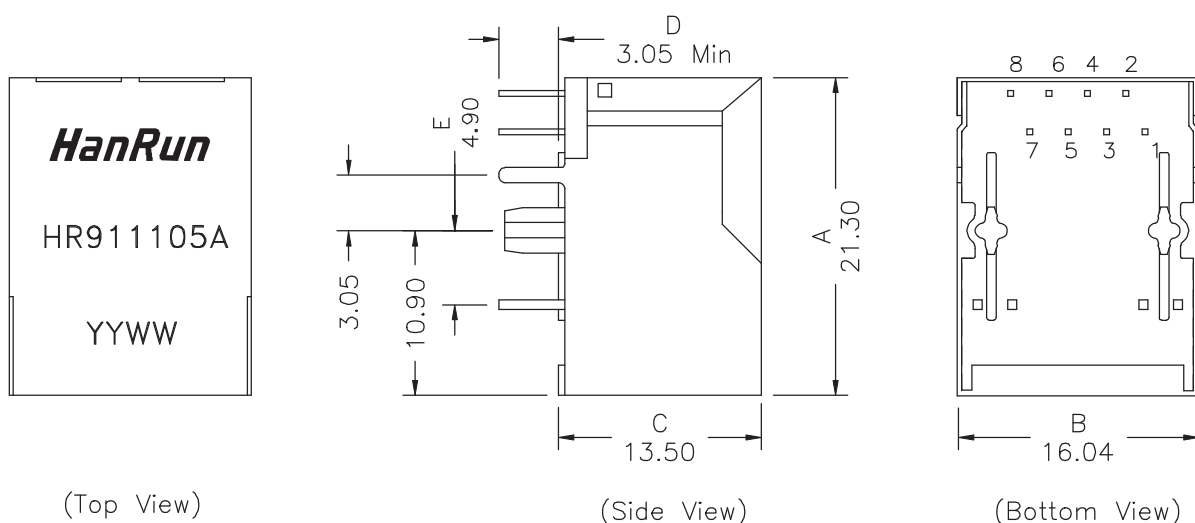


Notes: Connect CHS GND to PCB Ground

## HR911105A

- RoHS Compliant (PB Free)
- 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 be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

### Mechanical Dimensions:



| Standard LED | Wavelength | Forward V<br>(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

REV.: A/2

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[illegible]

Specifications subject to change without notice . Refer to the approval sheet for lastly edition.

## HR911105A

### Material Specification:

Housing: PA66 GF Black UL94V-0  
Shield: 30u" 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  
Plug to Jack Retention force: 20 lbs Minimum  
Operating life: 750 Cycles Minimum

### Operating and Storage conditions:

Operating Temperature Range: 0°C ~ +70°C  
Storage Temperature Range: -40°C ~ +85°C  
Storage Humidity: 30% to 85%