

## HR911130A

### 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 @100KHz ~ 60MHz

-1.1dB Maximum @60MHz ~ 100MHz

Return Loss: -18dB Minimum @0.3MHz ~ 30MHz / -14dB Minimum @40MHz ~ 60MHz

-12dB Minimum @80MHz ~ 100MHz

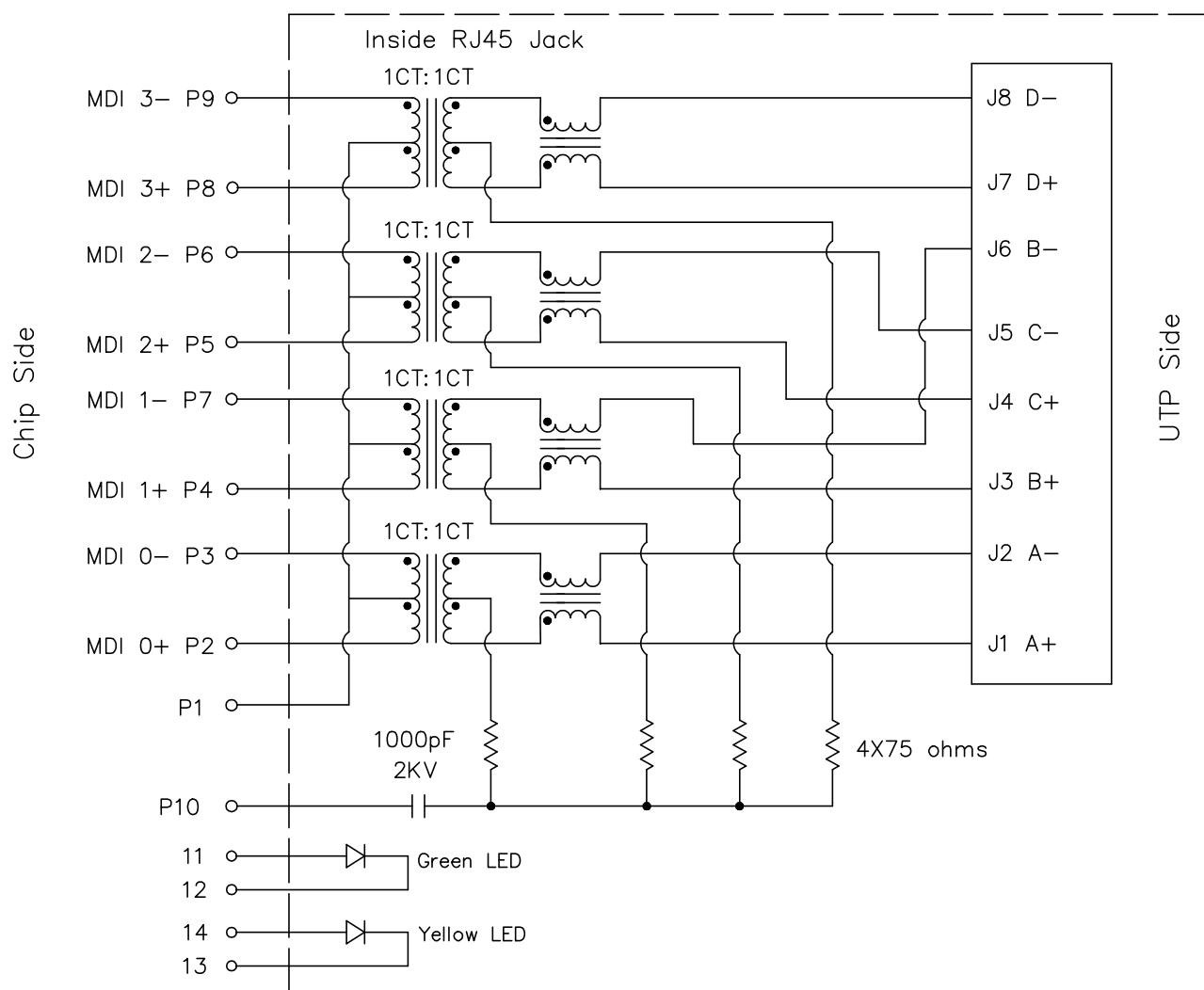
Common Mode Rejection: -40dB Minimum @1MHz ~ 60MHz

-35dB Minimum @60MHz ~ 100MHz

Crosstalk: -35dB Minimum @1MHz ~ 10MHz / -26dB Minimum @15MHz ~ 60MHz

-24dB Minimum @60MHz ~ 100MHz

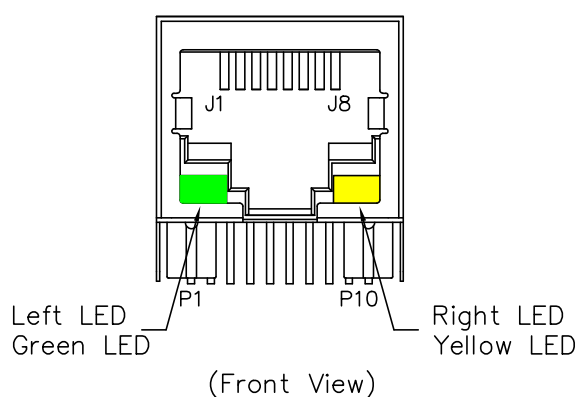
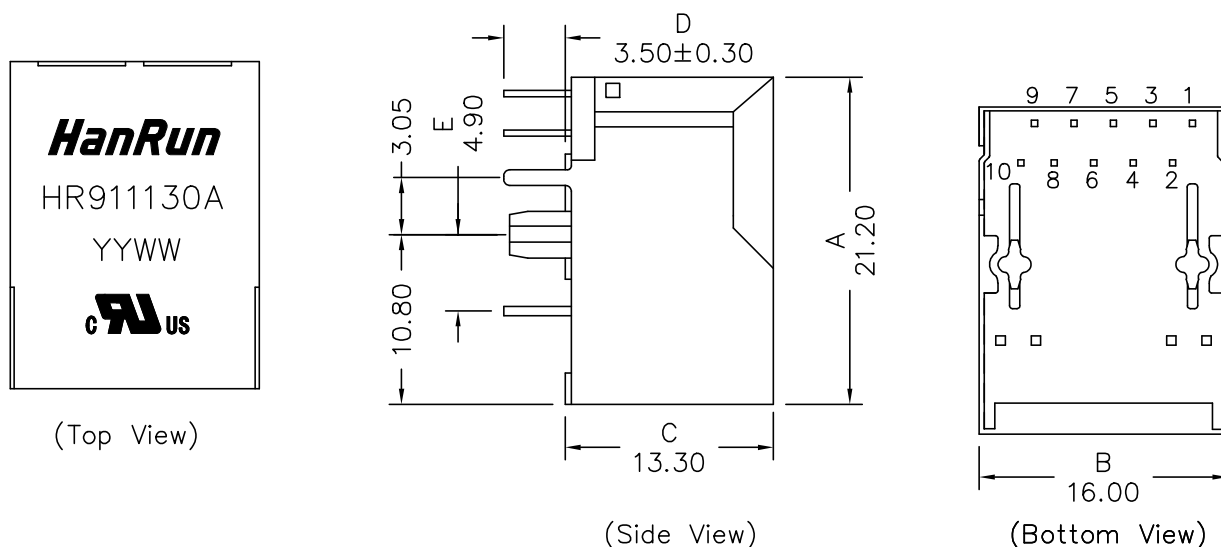
### Schematics



## HR911130A

- Meets or Exceeds IEEE802.3ab standards for 1000Base-T
- 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

### 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 |

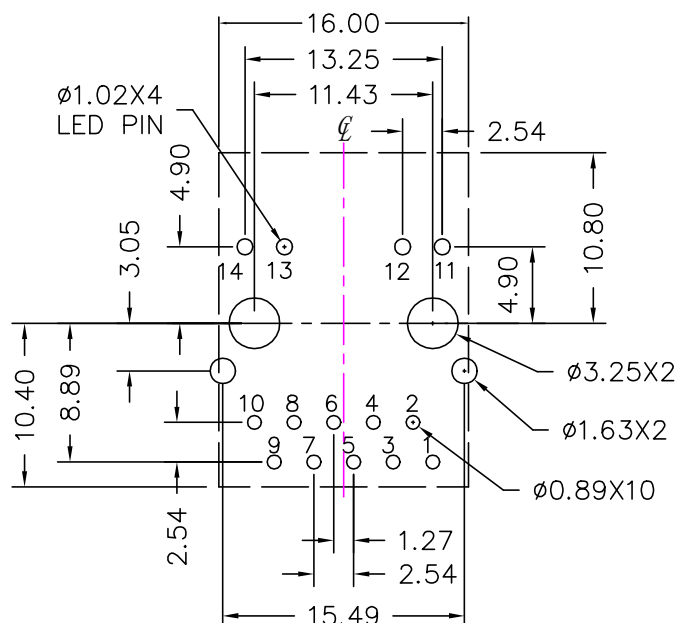
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: B

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### PCB Layout:



All dimension tolerance are  $\pm 0.08$  unless otherwise specified

SUGGESTED PANEL OPENING

REV.: B

## HR911130A

### 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: 12 lbs Minimum  
Operating life: 750 Cycles Minimum

### Operating and Storage Temperature:

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