

# HR911103A

# Electrical Specification @25°C

Operating Temperature Range: 0°C ~ +70°C

Isolation: 2250Vdc 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

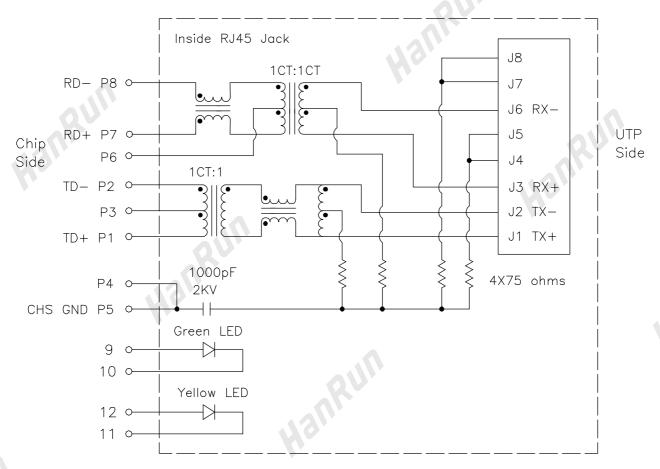
Common Mode Rejection: -30dB Minimum @1MHz ~ 50MHz

-20dB Minimum @50MHz ~ 150MHz

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

-30dB Minimum @60MHz  $\sim 100$ MHz

#### **Schematics**



Notes: Connect CHS GND to PCB Ground

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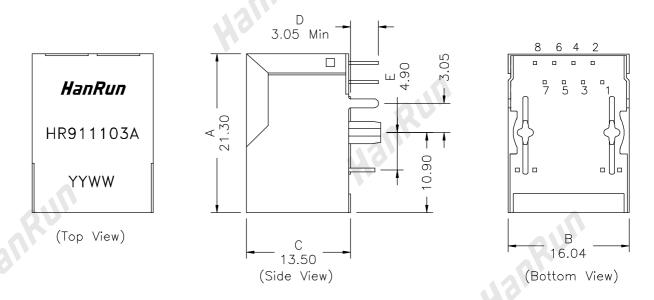
Specifications subject to change without notice. Refer to the approval sheet for lastly edition.

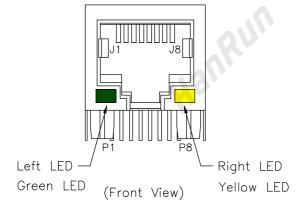


#### HR911103A

- 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 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 (Min/Max)	Forward A	Туре
Green	568nm	1.8V/2.8V	20mA	squareness
Yellow	585nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

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

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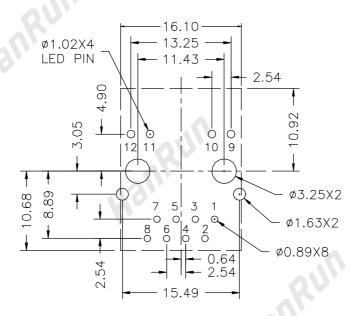
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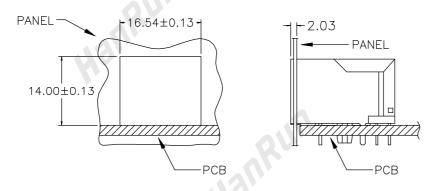
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## PCB Layout:



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

# Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm

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

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## 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-lead 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 Temperature:

Operating Temperature Range:  $0^{\circ}$ C  $\sim +70^{\circ}$ C Storage Temperature Range:  $-40^{\circ}$ C  $\sim +85^{\circ}$ C

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