

## HR971169C

### Electrical Specification @25°C

RoHS Compliant (PB Free)

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

Isolation: 2250VDC 0.5mA 60Sec (J1~8 to P1~5)

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

DCR: J1-2,J3-6=1.2 Ohms Maximum ; Pin1-3,Pin4-5=1.4 Ohms Maximum

Insertion Loss: -1.0dB Maximum @300KHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 30MHz /-13.5dB Minimum @30MHz ~ 60MHz

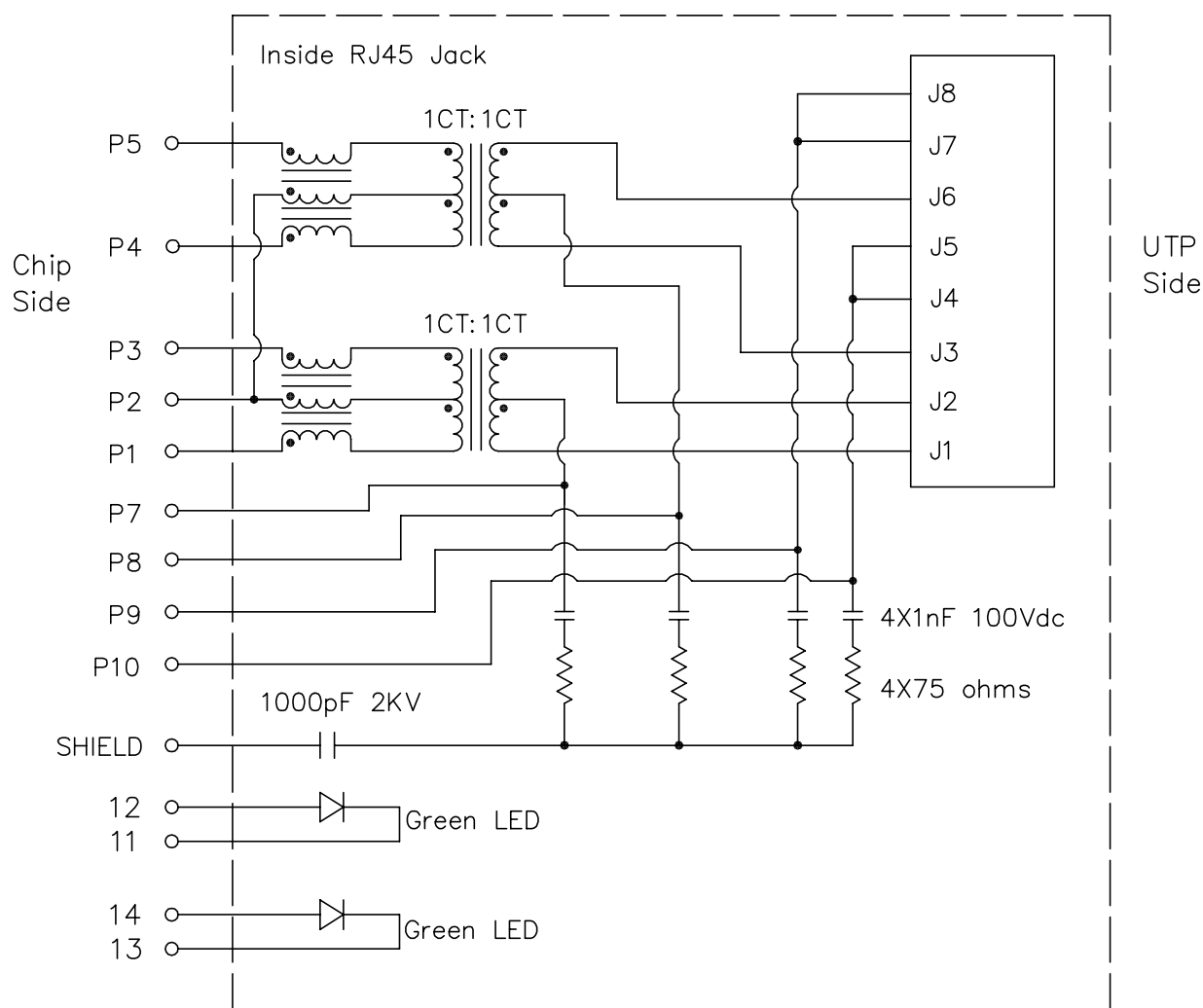
-12dB Minimum @60MHz ~ 80MHz /-10dB Minimum @10MHz ~ 100MHz

Crosstalk: -30dB Minimum @1MHz ~ 100MHz

Designed To Support 57VDC, 350mA per centre tap

(17.5W when using 2 centre taps; 35W when using 4 centre taps)

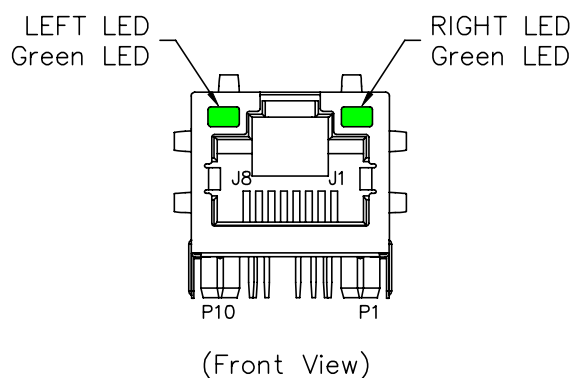
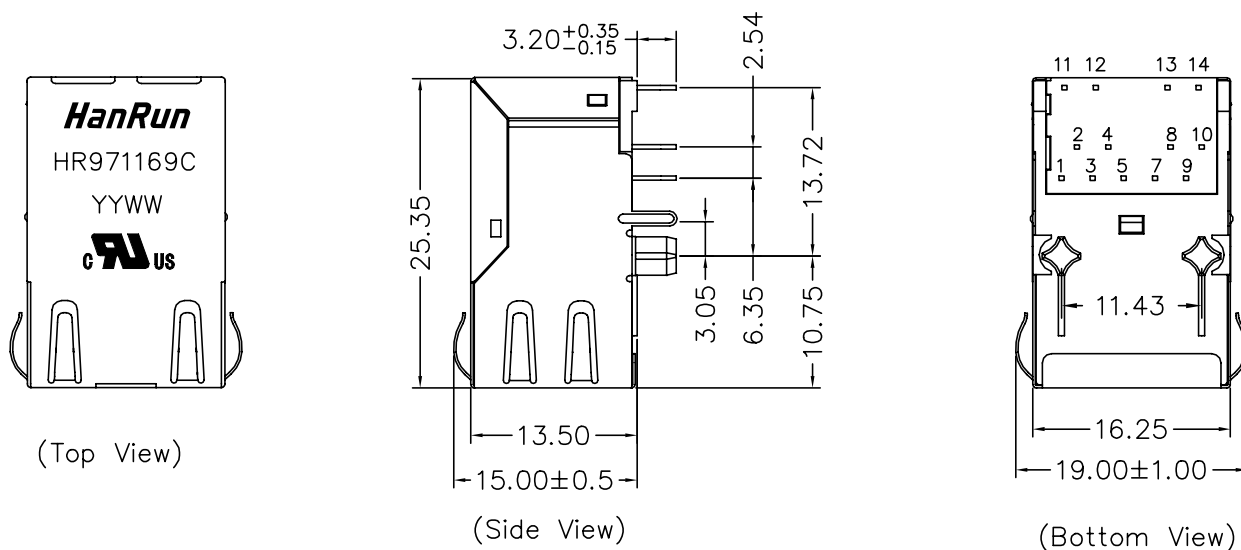
### Schematics



## HR971169C

- RoHS Compliant (Pb Free)
- UL Recognized Component: File # E330599
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3af 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 place on PCB, Higher reliability and yields

### Mechanical Dimensions:



Remark:

1.Remove Pin#6

| Standard LED | Wavelength | Forward V<br>(Min/Max) | Forward A | Type       |
|--------------|------------|------------------------|-----------|------------|
| Green        | 568nm      | 1.8V/2.8V              | 20mA      | squareness |

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: B/1

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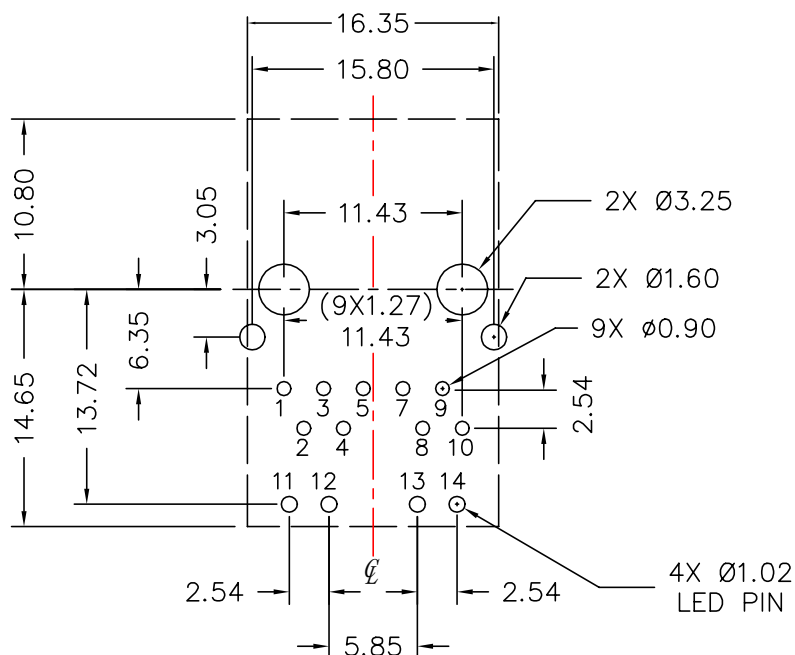
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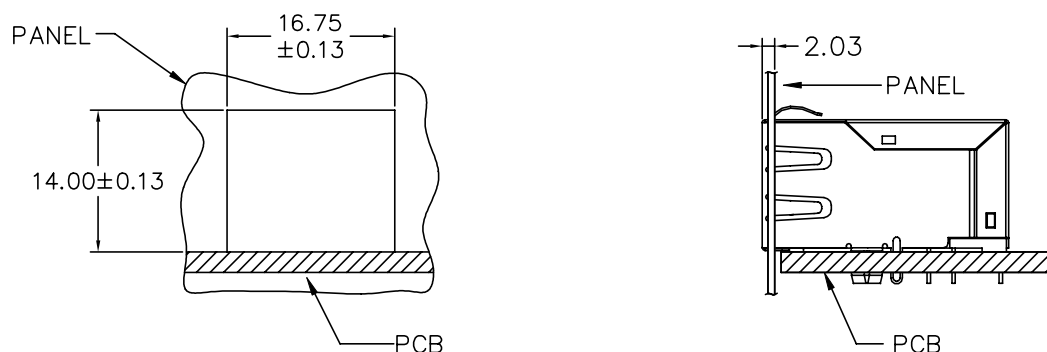
### PCB Layout:



Recommended PCB layout (Component Side View)

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

### Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm

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

REV.: B/1

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## HR971169C

### Material Specification:

Housing: PA66 Black UL94V-0  
Shield: 30u" Nickel over 0.20mm Thickness Brass  
Insert: PA66 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