

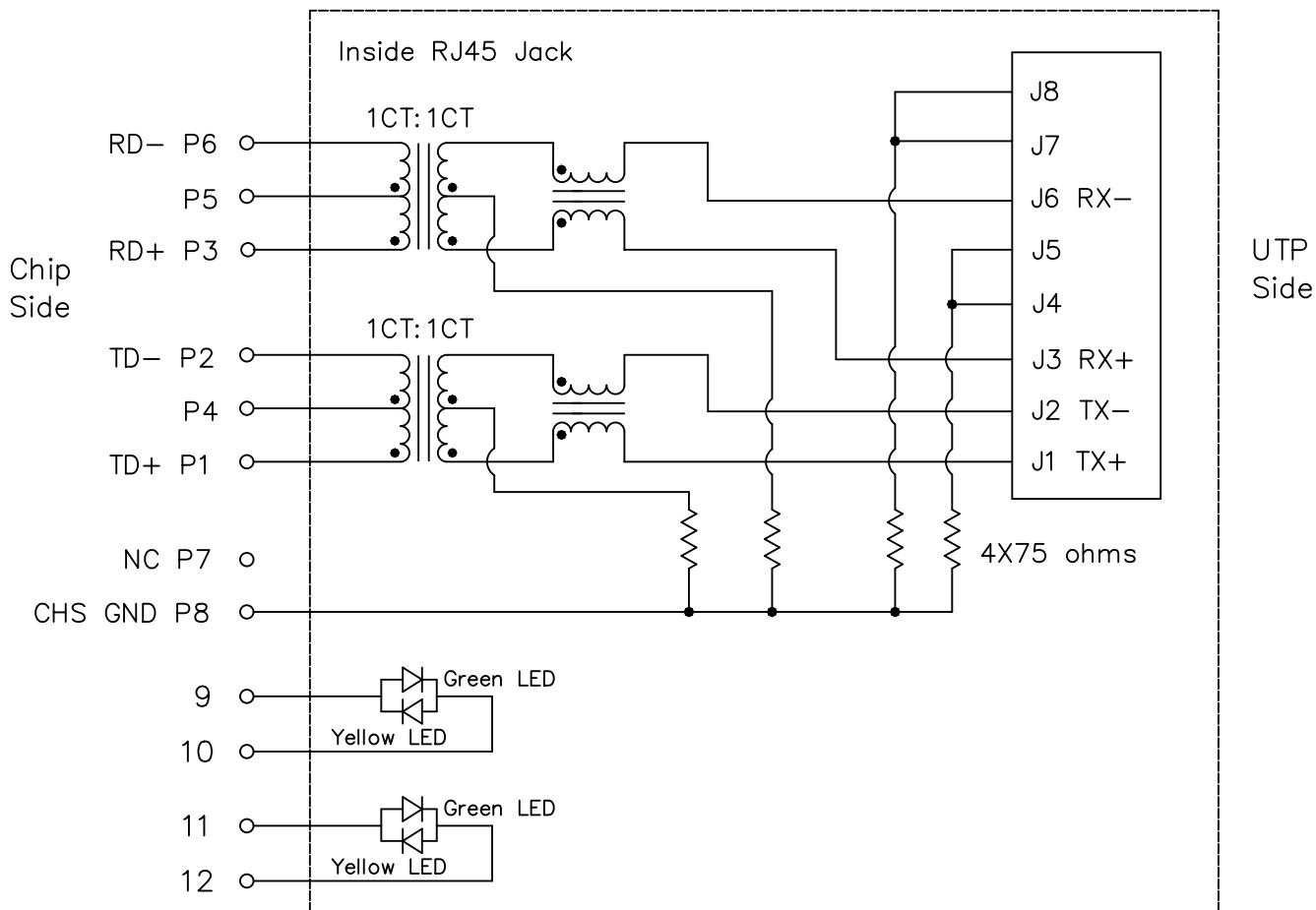
1x1 Port Tab-UP RJ45 Connector
With integrated magnetics and LED
For 10/100Base-T applications
Is suitable for reflow solder mounting

HR915592AE

Electrical Specification @25°C

| | | |
|------------------------|--------------|-----------------------------------|
| Isolation: | 2250VDC Min. | 0.5mA 60sec UTP Side to Chip Side |
| OCL: | 350uH Min. | @100KHz 100mV with 8mAADC |
| Insertion Loss: | -1.0dB Max. | @1MHz ~ 100MHz |
| Return Loss: | -18dB Min. | @1MHz ~ 30MHz |
| Return Loss: | -14dB Min. | @30MHz ~ 60MHz |
| Return Loss: | -12dB Min. | @60MHz ~ 80MHz |
| Return Loss: | -10dB Min. | @80MHz ~ 100MHz |
| Common Mode Rejection: | -30dB Min. | @1MHz ~ 100MHz |
| Crosstalk: | -30dB Min. | @1MHz ~ 100MHz |

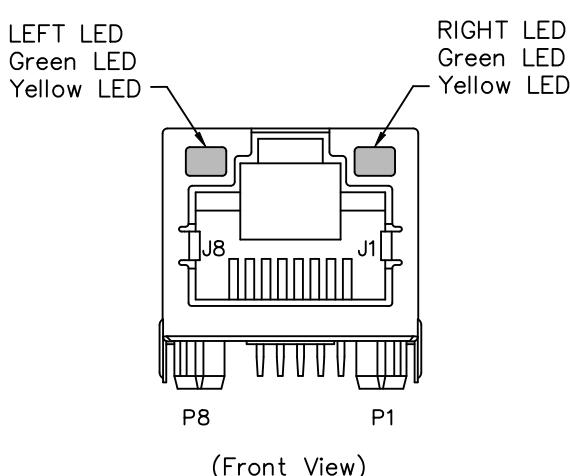
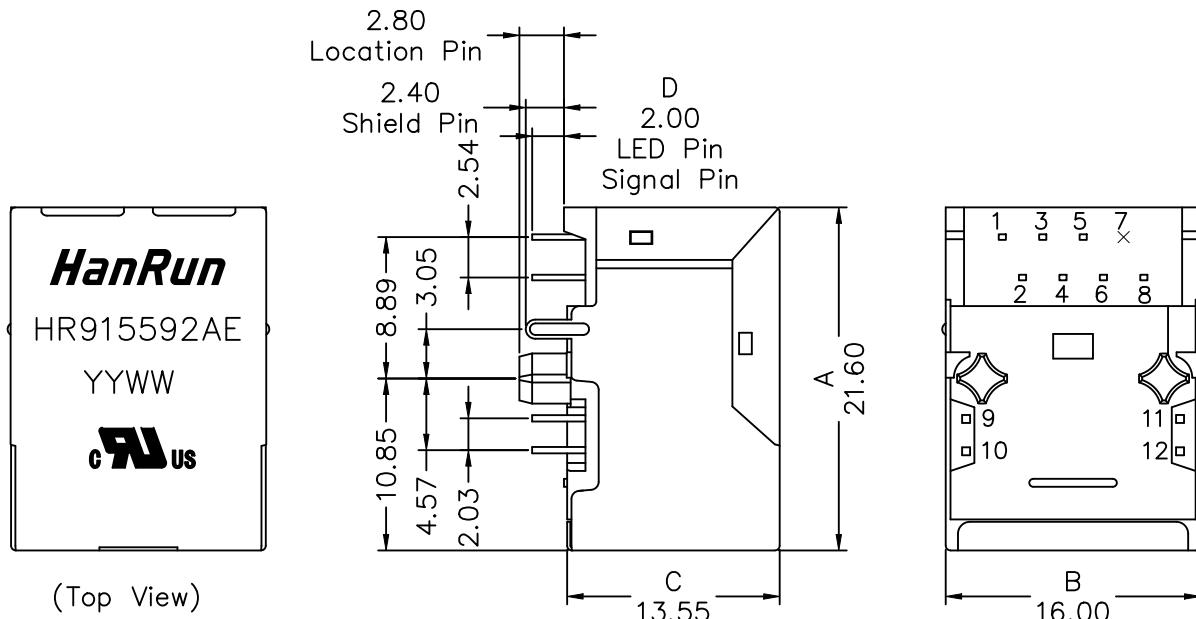
Schematics



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- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3u 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 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/Yellow | 568nm/585nm | 1.8V/2.8V | 20mA | squareness |

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: A1

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DRAWN:

CHECK:

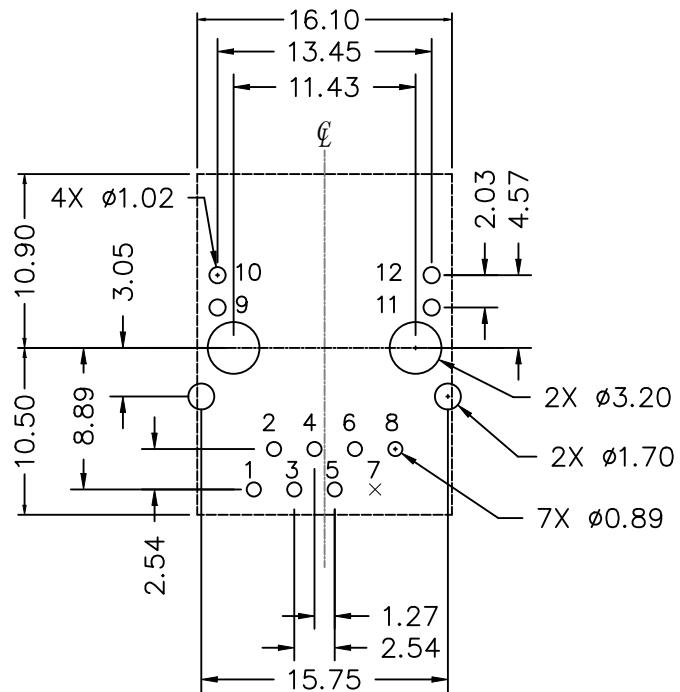
APPROVAL:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416

E-Mail: sales@hanrun.com http://www.hanrun.com

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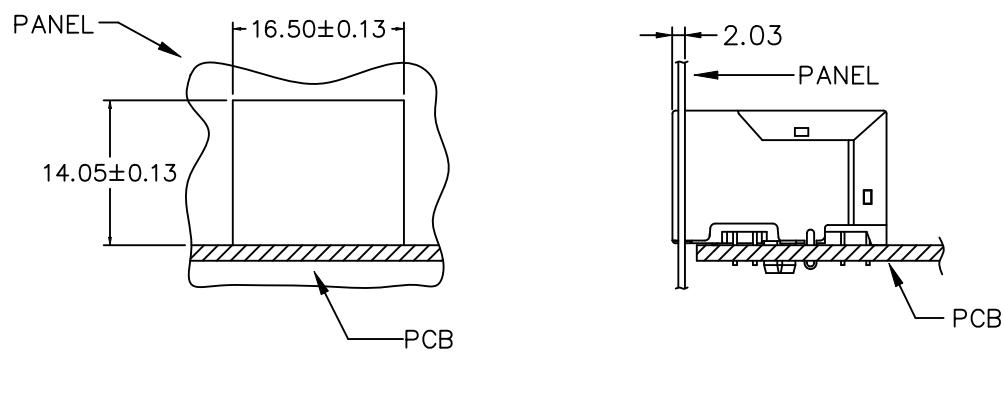
PCB Layout:



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 ± 0.25

REV.: A1

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DRAWN:

CHECK:

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Material Specification:

Housing: PA9T Black UL94V-0

Shield: 50u" Nickel over 0.20mm Thickness Brass

Insert: PA9T 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

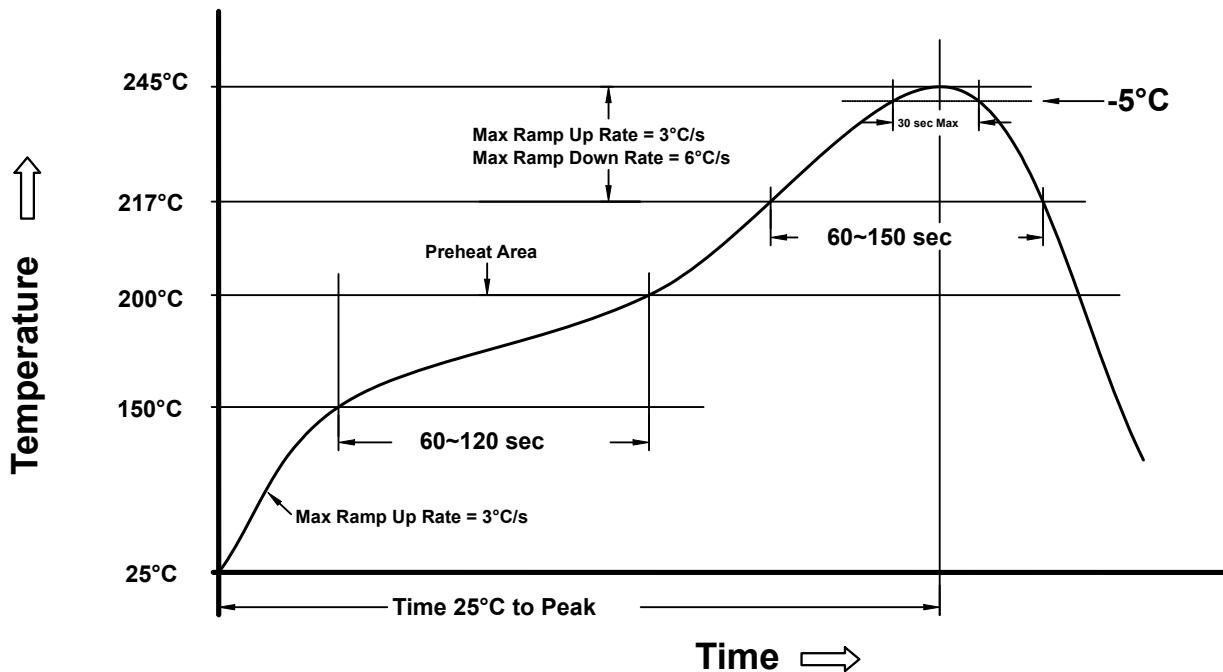
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: -40°C ~ +85°C

Storage Temperature Range: -40°C ~ +85°C

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Remarks:

- peak temperature = 245°C
- Maximum preheat rate = 3°C / sec
- Ramp up rate = 3°C / sec max
- Time above 217°C = 60 sec min / 150 sec max
- Maximum cooling rate = 6°C / sec
- T 25°C to peak = 8 min max
- preheat Time = 60 ~ 120 sec
- The number of allowed cycles in IR reflow ≤ 2 cycles