

HR871181AE

Electrical Specification @25°C

RoHS Compliant (PB Free)

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

Isolation: 1500Vrms 0.5mA 60sec (J1~8 to P1~6)

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

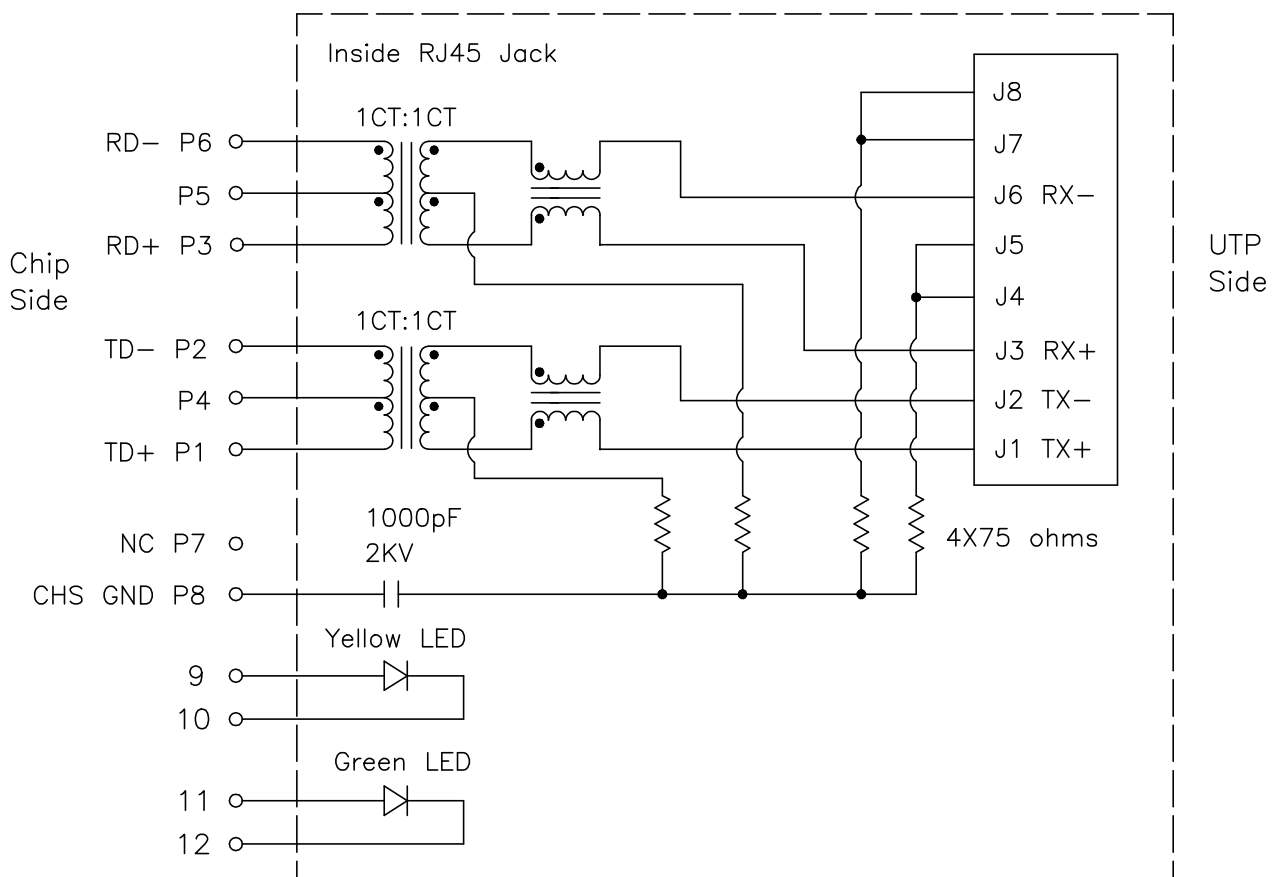
Common Mode Rejection: -30dB Minimum @1MHz ~ 50MHz

-20dB Minimum @50MHz ~ 150MHz

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

-30dB Minimum @60MHz ~ 100MHz

Schematics

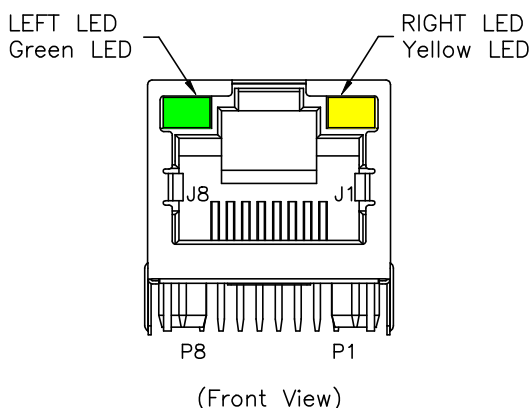
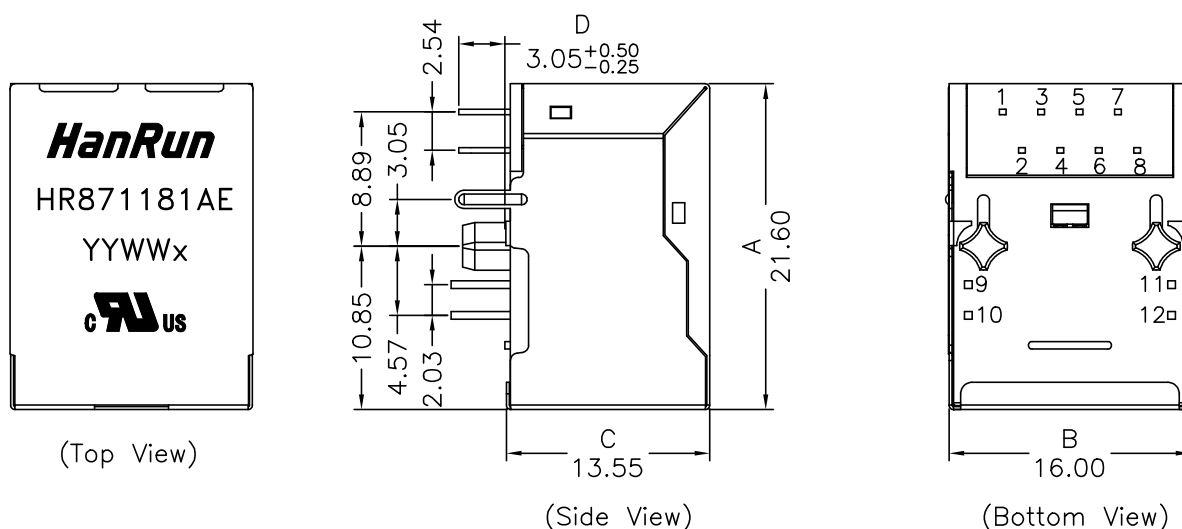


Notes: Connect CHS GND to PCB Ground

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- 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 (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.: 00

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Technical drawing of a rectangular plate with dimensions and hole specifications. The plate has a total width of 16.10 and a total height of 10.90. The drawing shows a central vertical section with a dashed line labeled ℓ . The plate features several holes and features:

- Four holes with diameter $\phi 1.02$ (4X $\phi 1.02$) located in the top corners.
- Two holes with diameter $\phi 3.20$ (2X $\phi 3.20$) located in the bottom corners.
- Two holes with diameter $\phi 1.70$ (2X $\phi 1.70$) located in the bottom corners, below the $\phi 3.20$ holes.
- Eight holes with diameter $\phi 0.89$ (8X $\phi 0.89$) located along the bottom edge.
- Two holes with diameter $\phi 1.02$ (2X $\phi 1.02$) located in the top corners, below the $\phi 1.02$ holes.
- Two holes with diameter $\phi 1.02$ (2X $\phi 1.02$) located in the top corners, below the $\phi 1.02$ holes.
- Two holes with diameter $\phi 1.02$ (2X $\phi 1.02$) located in the top corners, below the $\phi 1.02$ holes.

Dimensions and offsets are provided in millimeters:

- Top edge: 10.90 (total height), 3.05 (offset from top edge to center of $\phi 1.02$ holes), 8.89 (offset from top edge to center of $\phi 3.20$ holes).
- Bottom edge: 10.50 (offset from bottom edge to center of $\phi 3.20$ holes), 2.54 (offset from bottom edge to center of $\phi 1.70$ holes).
- Left side: 16.10 (total width), 13.45 (offset from left edge to center of $\phi 1.02$ holes), 11.43 (offset from left edge to center of $\phi 3.20$ holes).
- Right side: 15.75 (offset from right edge to center of $\phi 1.02$ holes), 1.27 (offset from right edge to center of $\phi 3.20$ holes), 2.54 (offset from right edge to center of $\phi 1.70$ holes).
- Internal dimensions: 2.03 (offset from center line to center of $\phi 1.02$ holes), 4.57 (offset from center line to center of $\phi 3.20$ holes).

Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,
Zhongshan City, Guangdong Province, China
Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com <http://www.hanrun.com>

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Material Specification:

Housing: PA66 GF Black UL94V-0
Shield: 50u" 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
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

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