

1x4 Ports RJ45 Connector
with Integrated Magnetics and LED
for 10/100Base-TX PoE application



HR911441A

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 2250VDC 0.5mA 60sec (J1~8 to P.3)

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

Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz
-12dB Minimum @60MHz ~ 80MHz / -10dB Minimum @80MHz ~ 100MHz

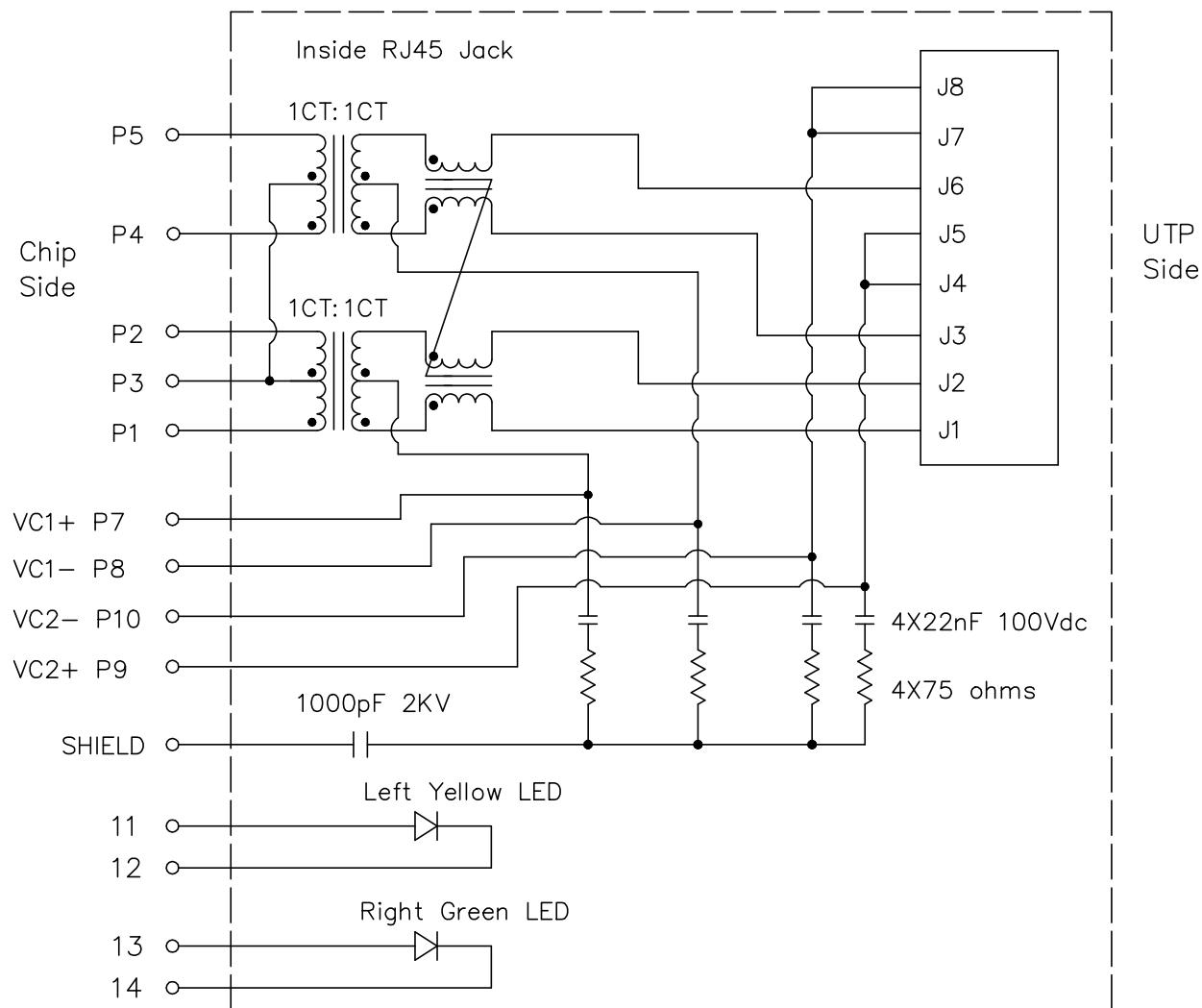
Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

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)

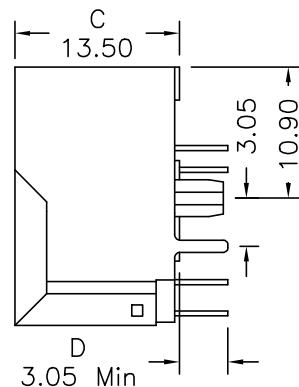
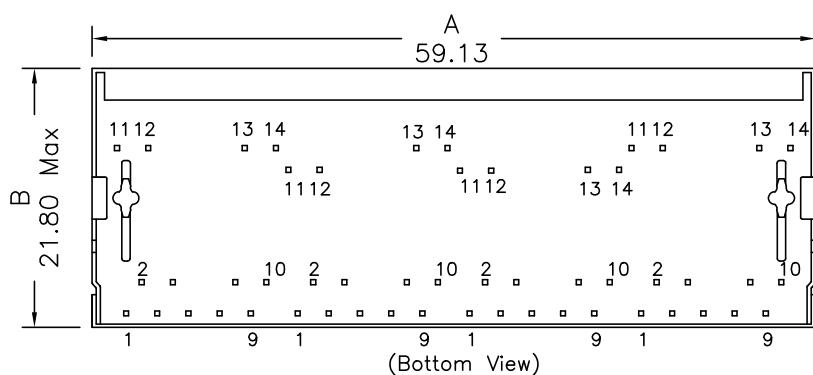
Schematics



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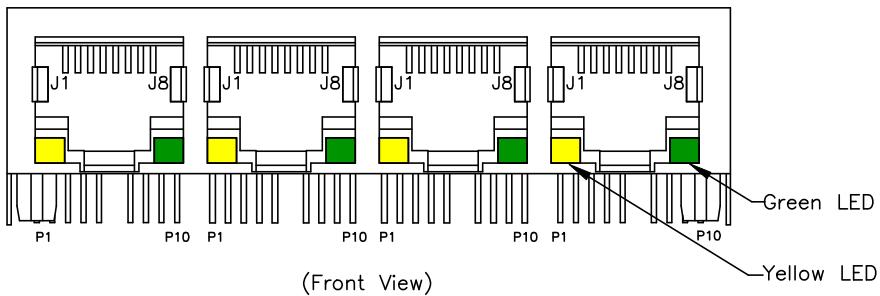
- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3af standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

Mechanical Dimensions



Remark:

1. Remove Pin#6



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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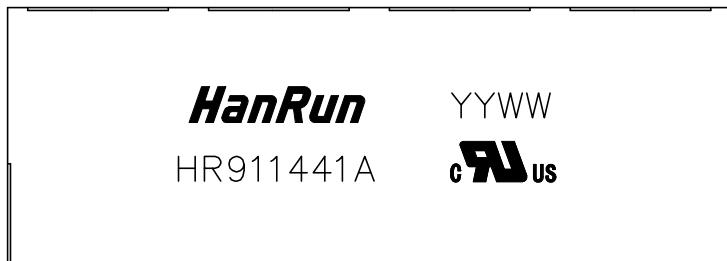
Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,

Zhongshan City, Guangdong Province, China

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

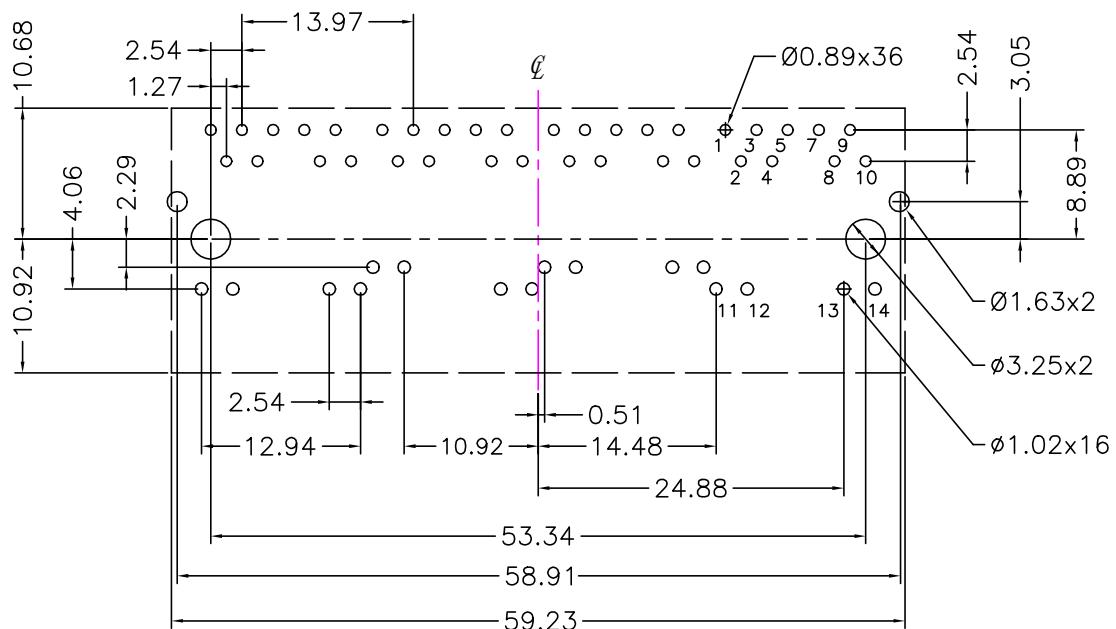
E-Mail: sales@hanrun.com http://www.hanrun.com

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(Top View)

PCB Layout



Recommended PCB layout (Component Side View)

All dimension tolerance are ± 0.08 unless otherwise specified

Dimensions in mm

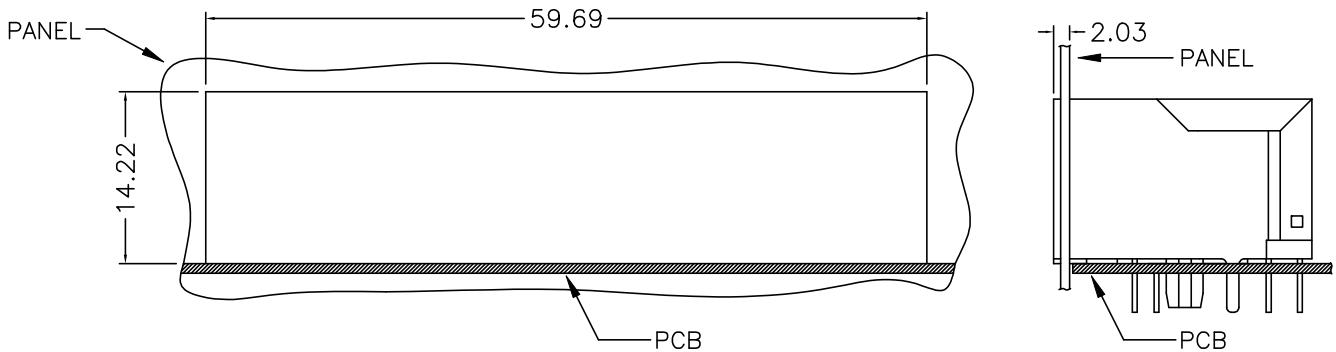
Unless otherwise specified, Tolerance: .xx ± 0.25

REV.: 00

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Suggested Panel Cutout



Material Specification

Housing: PA66 GF Black UL94V-0
Shield: 30 μ " Nickel over 0.20mm Thickness Brass
Insert: PA66 GF Black UL94V-0
Phosphor Bronze 0.35mm Thickness
Plating Area, 30 μ " gold over 50 μ " nickel
Solder Area, 100 μ " tin over 50 μ " 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

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

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