

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: -1.2dB Maximum @1MHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 10MHz

-16dB Minimum @30MHz

-12dB Minimum @60MHz \sim 80MHz

-10dB Minimum @80MHz ~ 100MHz

Common Mode Rejection: -30dB Minimum @1MHz \sim 125MHz

Crosstalk: -40dB Minimum @1MHz ~ 10MHz

−31.5dB Minimum @32MHz ~ 65MHz

−30dB Minimum @65MHz ~ 100MHz

Schematics Inside RJ45 Jack 1CT:1CT J8 TRP4-TRD4- P9 C TRCT4 P7 o J7 TRP4+ TRD4+ P8 o 1CT:1CT J6 TRP2-TRD3- P2 ℃ TRCT3 P1 Side Side J5 TRP3-TRD3+ P3 o-1CT:1CT TRD2- P5 ↔ J4 TRP3+ TRCT2 P6 o J3 TRP2+ TRD2+ P4 o 1CT:1CT TRD1- P10 ↔ J2 TRP1-TRCT1 P12 o TRD1+ P11 o-J1 TRP1+ 1000pF 4X75 ohms 2KV SHIELD O 13 ↔ Yellow LED 14 0-Orange LED 15 0-16 o Green LED

REV.: 06

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

Low Profile 1x1 Port Tab-UP RJ45 Connector with Magnetics Module and LED



HR911060C

Commercial standards, specifications and Summary:

RoHS Compliant (Pb Free)
Sing port Tab-UP with internal magnetics for 10/100/1000 Base-T
Meets or Exceeds IEEE802.3ab 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

UL Recognized Component: File # E330599

Material Specification:

Housing: PA46 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

LED Conductor: PC Transparent UL94V-0

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

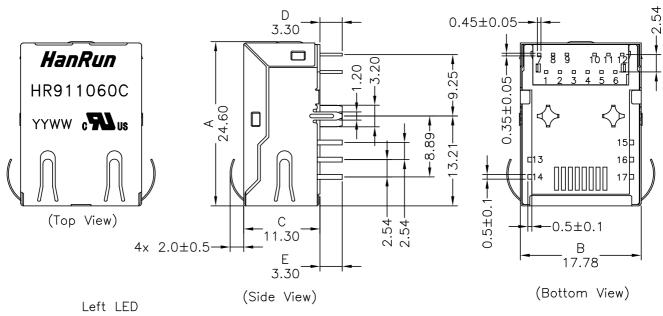
Operating and Storage Temperature:

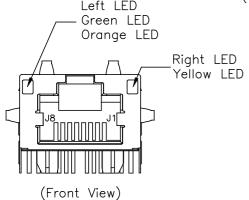
Operating Temperature Range: 0° C $\sim +70^{\circ}$ C Storage Temperature Range: -40° C $\sim +85^{\circ}$ C

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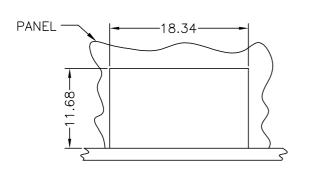


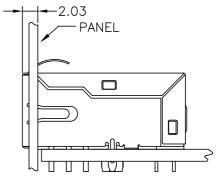
Mechanical Dimensions:





Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Туре
Green/Orange	569nm/600nm	1.8V/2.8V	20mA	squareness
Yellow	585nm	1.8V/2.8V	20mA	squareness





SUGGESTED PANEL CUTOUT

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

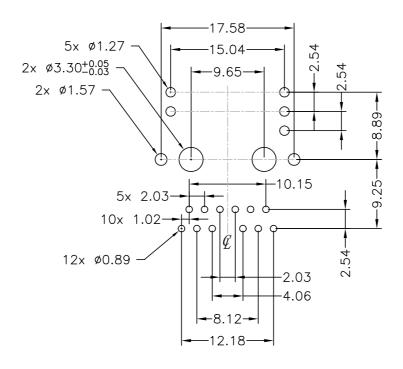
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PCB Layout:



Recommended PCB layout (Component Side View)

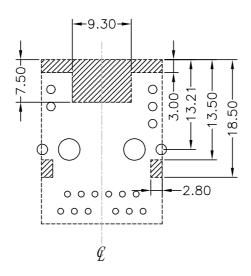
Component side PCB thickness: 1.60mm

All dimension tolerance are ±0.08 unless otherwise specified

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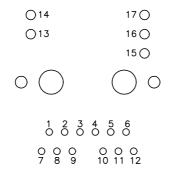
Keep-Out Area:



Component Side View

NOTES: THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO CLEAR OFF ANY VIA HOLE OR COMPONENT PAD

Pin Assignments:



PIN ASSIGNMENTS (COMPONENT SIDE VIEW)

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