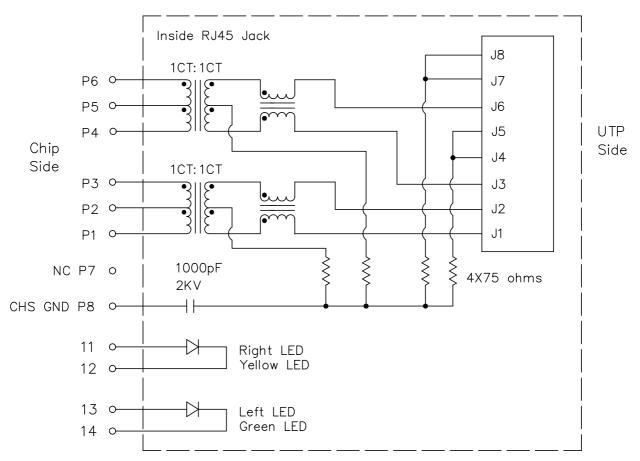
Stacked 2x1 RJ45 Connector with Integrated Magnetics and LED for 10/100Base-TX Applications



HR916103H

Electrical Specification @25°C RoHS Compliant (PB Free) Isolation: 2250VDC 0.5mA 60Sec (UTP Side to Chip Side) OCL: 350uH Minimum @100KHz 100mV with 8mADC Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz Return Loss: -18dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz -12dB Minimum @60MHz ~ 80MHz Differential to Common Mode Rejection: -30dB Typical @1MHz ~ 50MHz -20dB Typical @50MHz ~ 150MHz CMRR: -30dB Minimum @1MHz ~ 100MHz Crosstalk: -35dB Minimum @30MHz / -30dB Minimum @60MHz -25dB Minimum @100MHz

Schematics



Notes: Connect CHS GND to PCB Ground

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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 Specifications subject to change without notice . Refer to the approval sheet for lastly edition.



Commercial standards, specifications and Summary:

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 2250Vdc isolation per IEEE802.3 requirement Minimize PCB space and Simplify PCB Layout Less magnetic components to place on PCB, Higher reliability and yields

Material Specification:

Housing: PBT 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 RJ45 Contact pin: PA66 GF Black UL94V-0 Brass; 100u" Tinning LED Conductor: PC Transparent UL94V-0

Mechanical Performance:

Contact resistance: 30 mΩ Maximum Mating force: 5 lbs Maximum Unmating force: 5 lbs Maximum Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

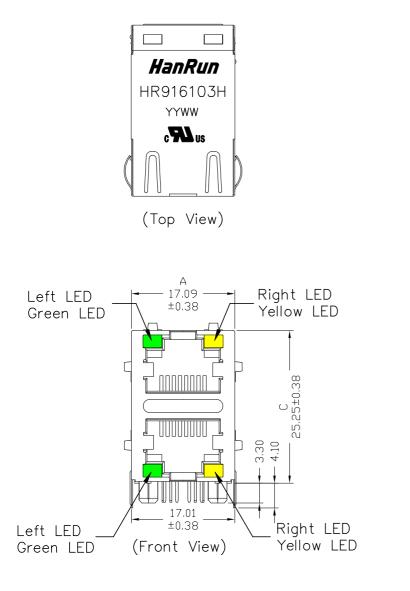
Operating Temperature Range: $0^{\circ}C \sim +70^{\circ}C$ Storage Temperature Range: $-40^{\circ}C \sim +85^{\circ}C$

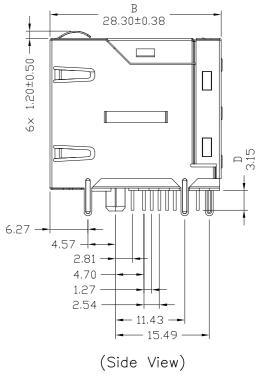
REV.: 00

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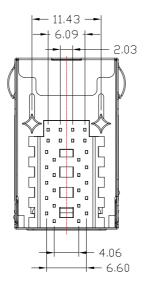
Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Туре
Green	568nm	1.8V/2.8V	20mA	squareness
Yellow	586nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25 REV.: 00

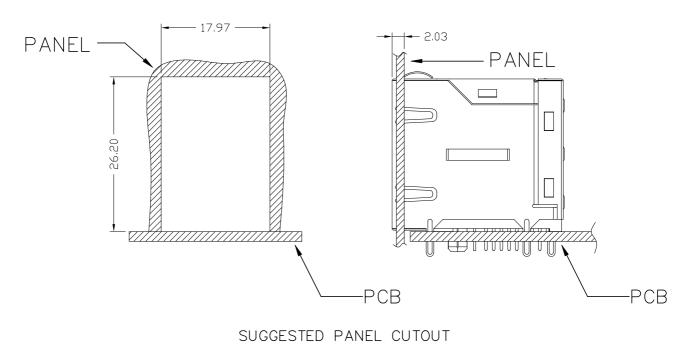
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Suggested Panel Cutout:



Dimensions in mm Unless otherwise specified, Tolerance: .xx ± 0.25 REV.: 00

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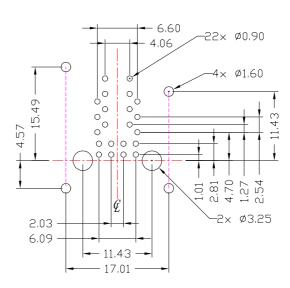
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Electronics Company Limited

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 Specifications subject to change without notice . Refer to the approval sheet for lastly edition.

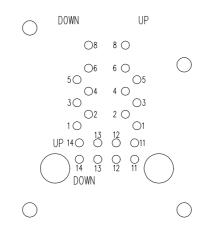


PCB Layout:



(Recommended PCB layout) All dimension tolerance are ± 0.08 unless otherwise specified

Pin Assignments:



Dimensions in mm Unless otherwise specified, Tolerance: .xx ± 0.25 REV.: 00

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