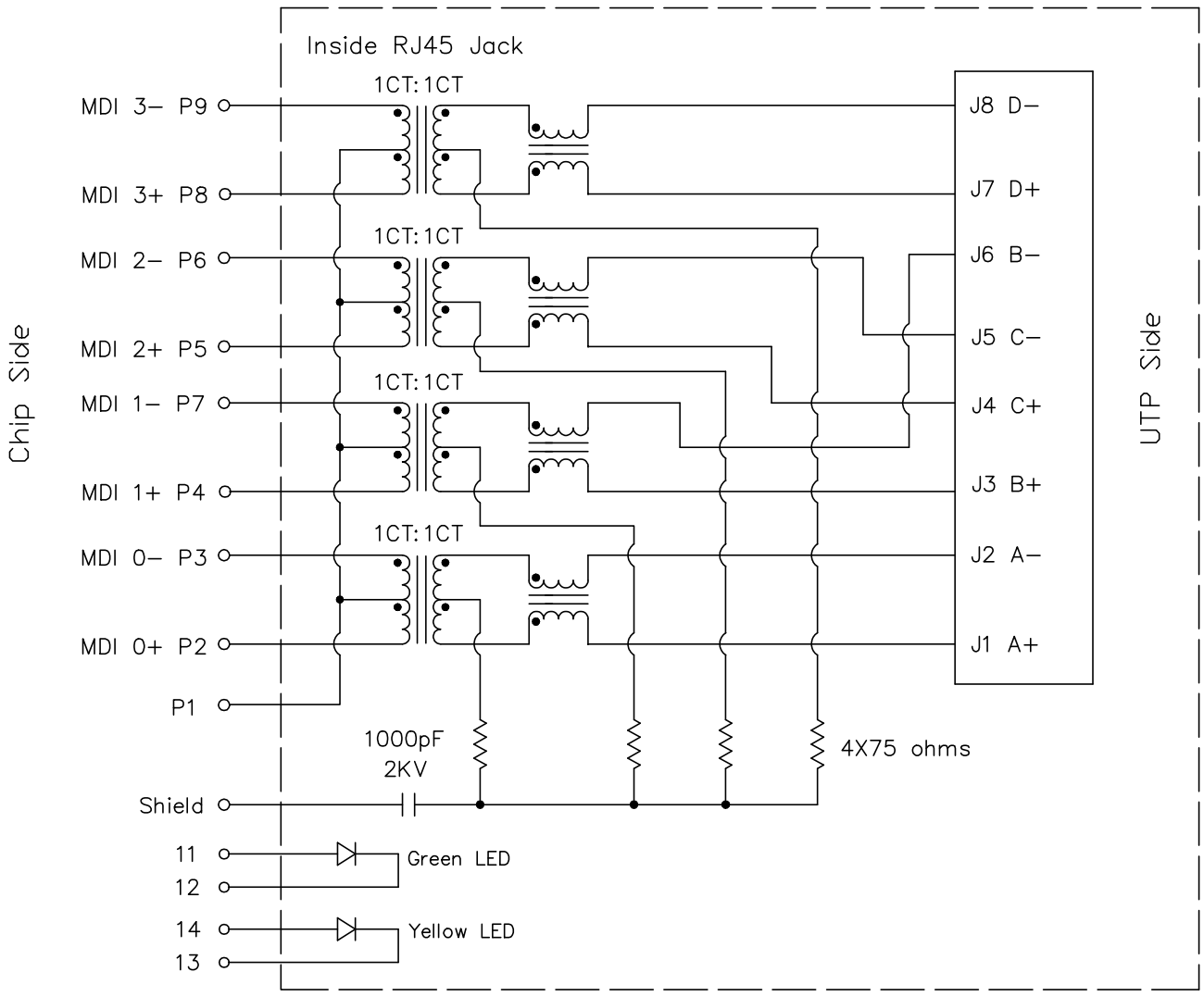
HR916130H

Electrical Specification @25°C

Isolation: 2250Vdc 0.5mA 60Sec (UTP Side to Chip Side)
OCL: 350uH Minimum @100KHz 100mV with 8mADC
Insertion Loss: −1.0dB Maximum @100KHz ~ 60MHz / −1.1dB Maximum @60MHz ~ 100MHz
Return Loss: −18dB Minimum @0.3MHz ~ 30MHz / −14dB Minimum @40MHz ~ 60MHz
−12dB Minimum @80MHz ~ 100MHz
Common Mode Rejection: −40dB Minimum @1MHz ~ 60MHz
−30dB Minimum @60MHz ~ 100MHz
Crosstalk: −35dB Minimum @1MHz ~ 10MHz / −26dB Minimum @15MHz ~ 60MHz
−24dB Minimum @60MHz ~ 100MHz

Schematics



Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,
Zhongshan City, Guangdong Province, China
Tel: (021)64128995 https: //Ljq.hqelec.com
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HR916130H

Commercial standards, specifications and Summary:

RoHS Compliant (Pb Free)
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
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°C ~ +70°C
Storage Temperature Range: -40°C ~ +85°C

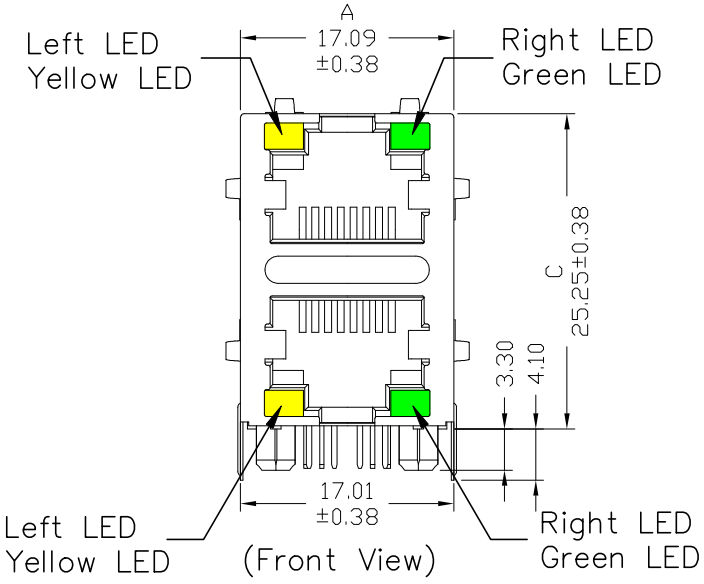
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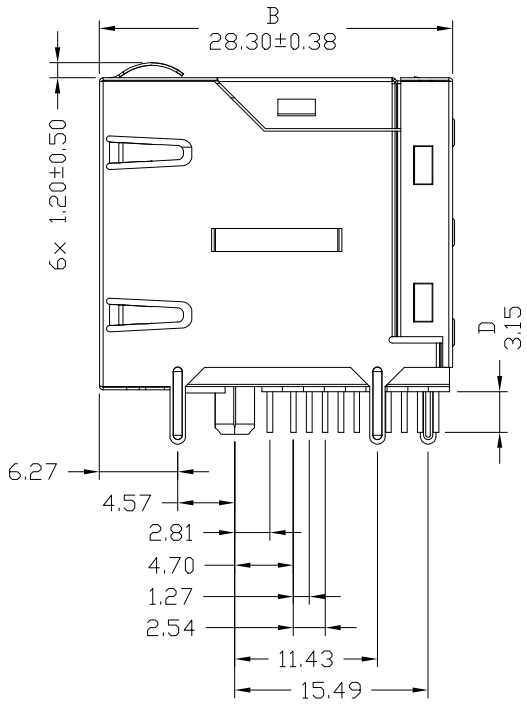
Mechanical Dimensions:



(Top View)



(Front View)



(Side View)

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

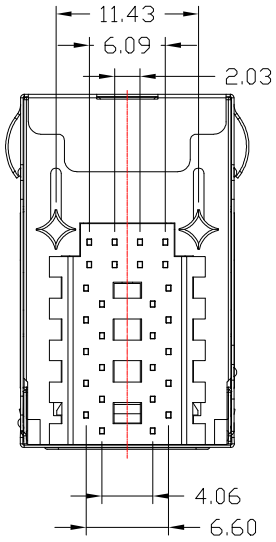
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

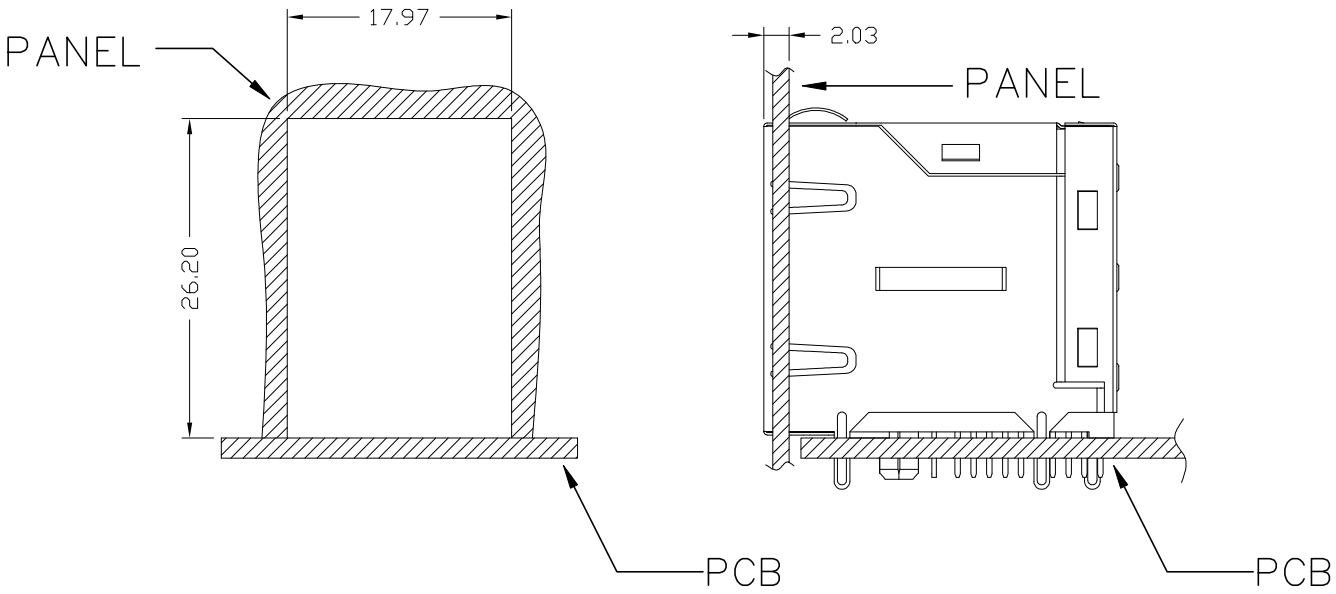
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(Bottom View)

Suggested Panel Cutout:

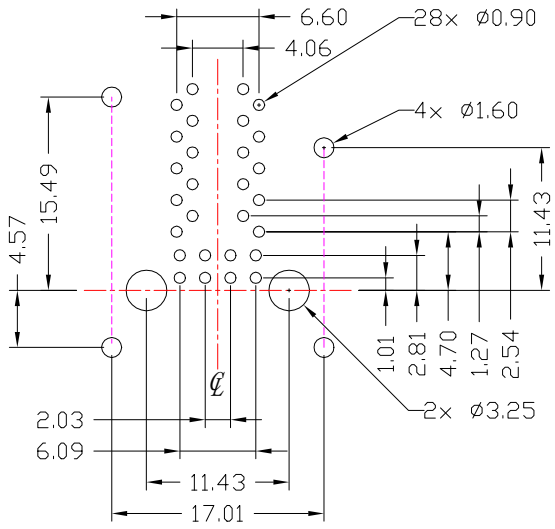


SUGGESTED PANEL CUTOUT

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

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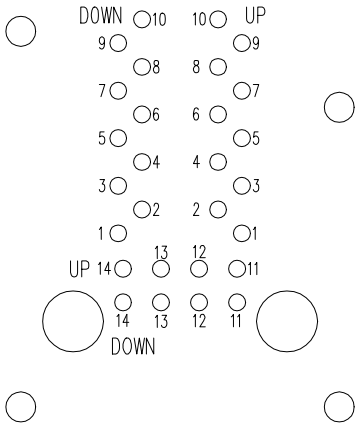
PCB Layout:



(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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