

HR872192H

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 2250VDC 0.5mA 60sec (UTP Side to Chip Side)

OCL: 180uH Minimum @100KHz 100mV with 8mAADC

Insertion Loss: -1.0dB Maximum @300KHz ~ 100MHz / -1.25 Maximum @100MHz ~ 250MHz

Return Loss: -20dB Minimum @1MHz ~ 40MHz / -18dB Minimum @40MHz ~ 60MHz

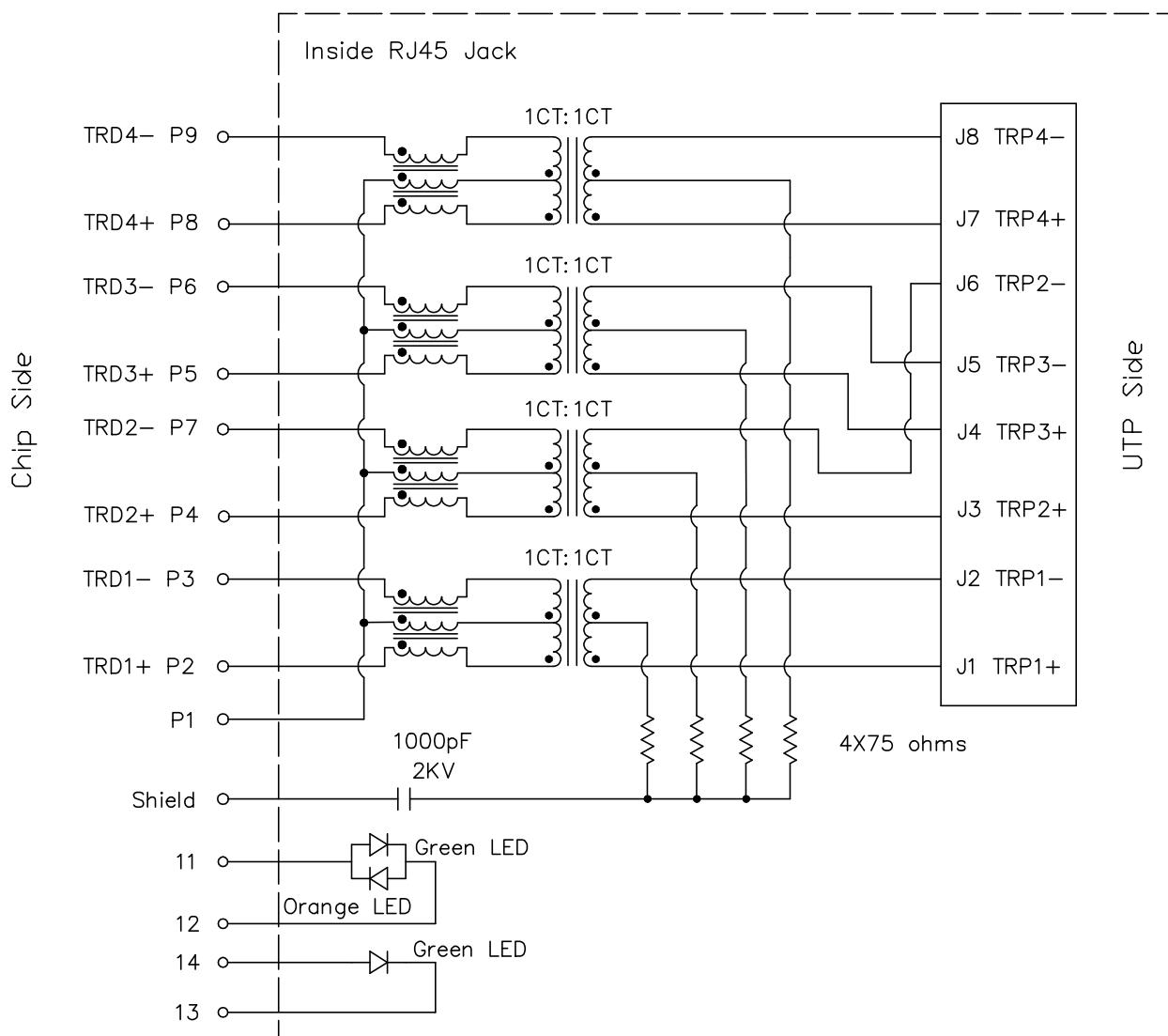
-16dB Minimum @60MHz ~ 80MHz / -14dB Minimum @80MHz ~ 100MHz

-12dB Minimum @100MHz ~ 150MHz / -9dB Minimum @150MHz ~ 250MHz

Common to Differential Mode Rejection: -30dB Minimum 1MHz ~ 250MHz

Crosstalk: -30dB Minimum 1MHz ~ 100MHz / -25dB Minimum 100MHz ~ 250MHz

Schematics



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Commercial standards, specifications and Summary:

RoHS Compliant (Pb Free)
Meets or Exceeds IEEE802.3bz standards
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
UL Recognized Component: File # E330599

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:

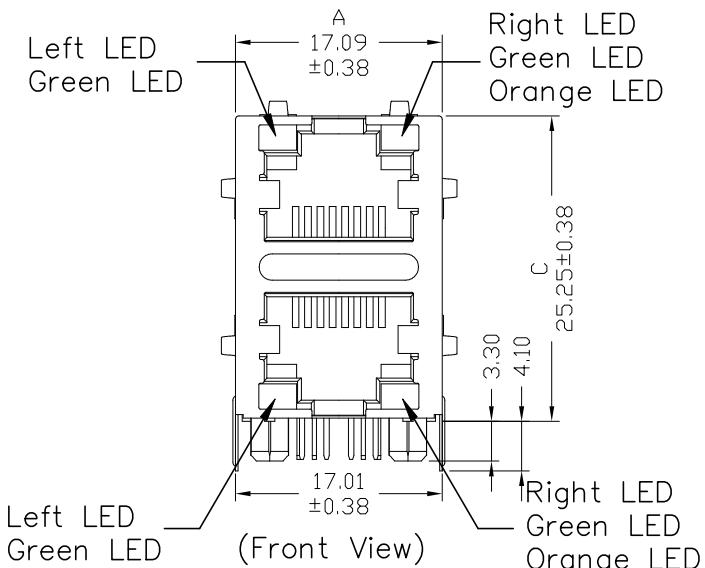
Operating Temperature Range: 0°C ~ +70°C
Storage Temperature Range: -40°C ~ +85°C

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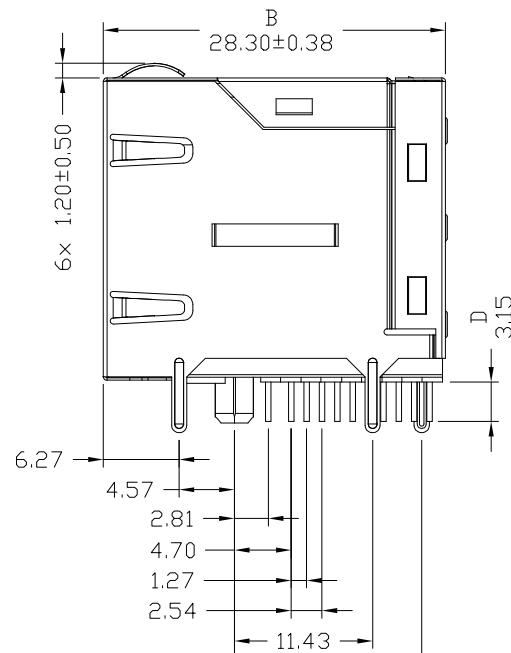
Mechanical Dimensions:



(Top View)



(Front View)



(Side View)

Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Green	568nm	1.8V/2.8V	20mA	squareness
Green/Orange	568nm/600nm	1.8V/2.8V	20mA	squareness

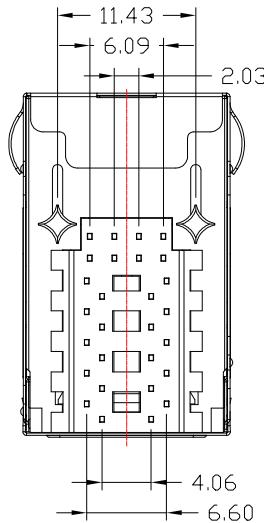
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

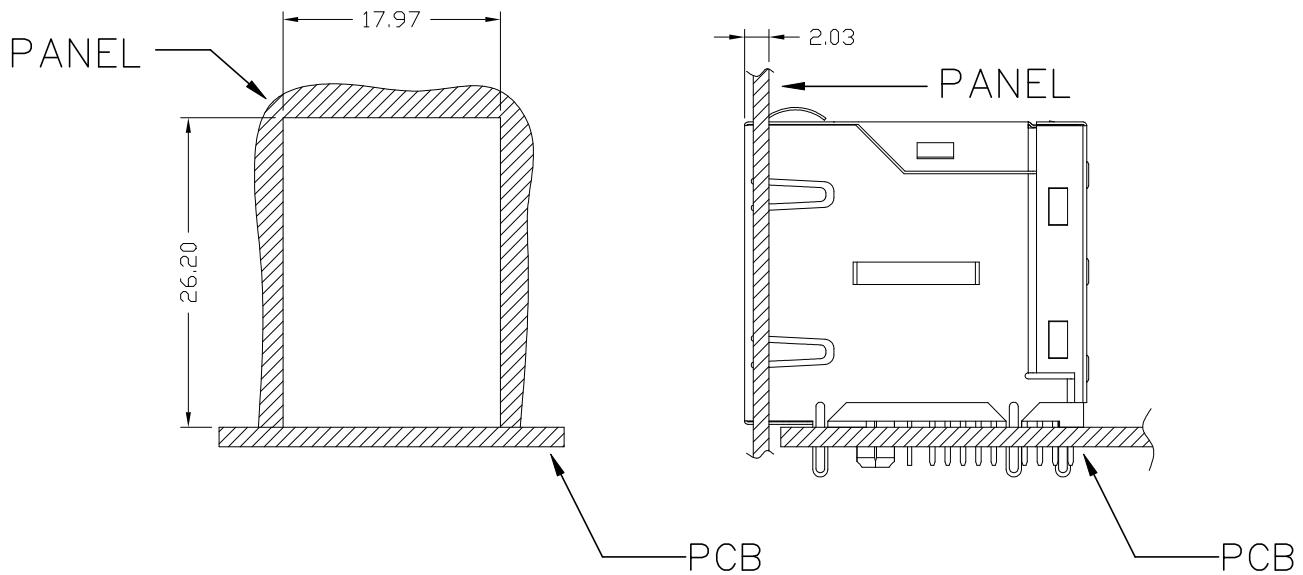
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(Bottom View)

Suggested Panel Cutout:



SUGGESTED PANEL CUTOUT

Dimensions in mm

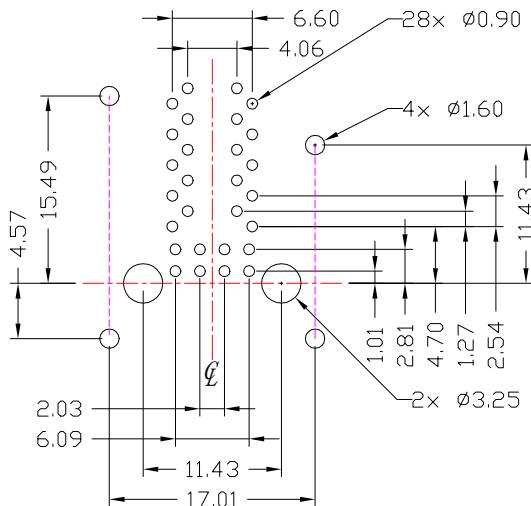
Unless otherwise specified, Tolerance: .xx ±0.25

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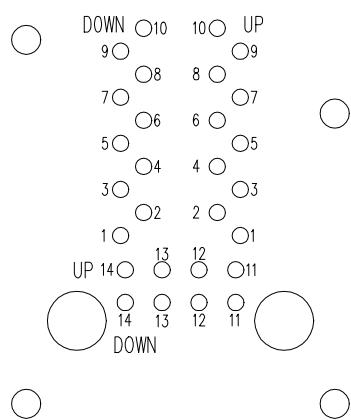
PCB Layout:



(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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