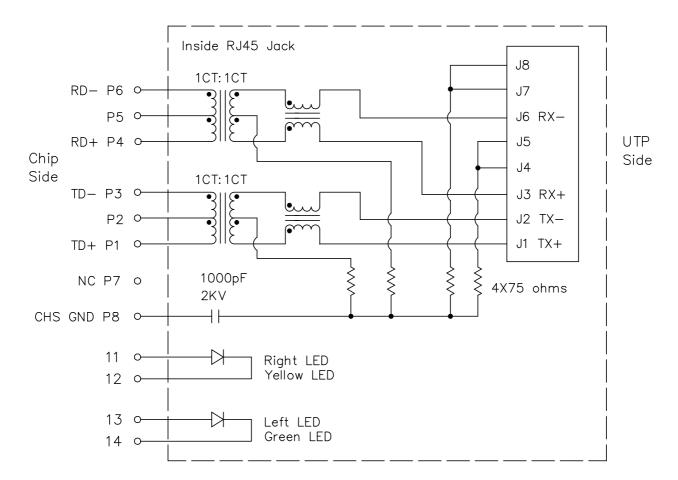


Electrical Specification @25°C

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 / -10dB Minimum @80MHz ~ 100MHz Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

Schematics



Notes: Connect CHS GND to PCB Ground

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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

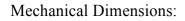
Operating and Storage Temperature:

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

REV.: 00

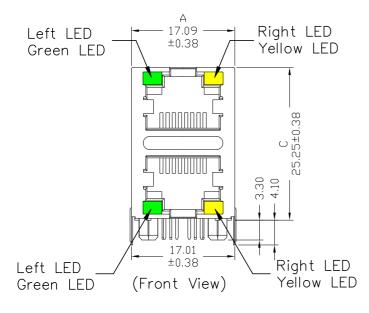
2 of 5

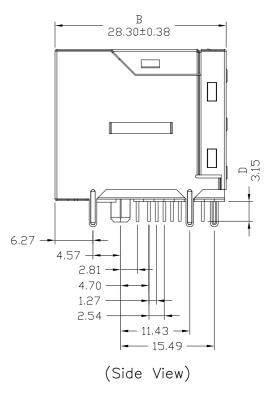












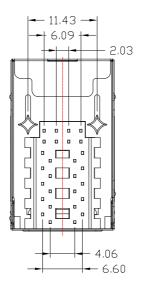
Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Туре
Green	568nm	1.8V/2.8V	20mA	squareness
Yellow	586nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

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

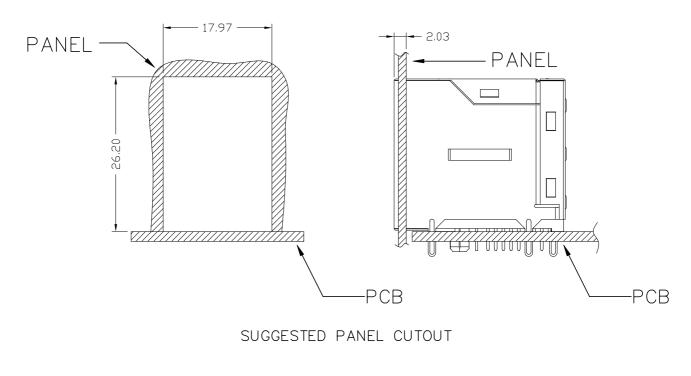
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Suggested Panel Cutout:



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

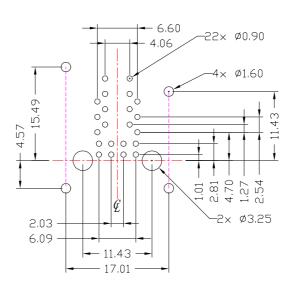
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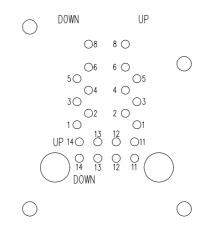


PCB Layout:



(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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