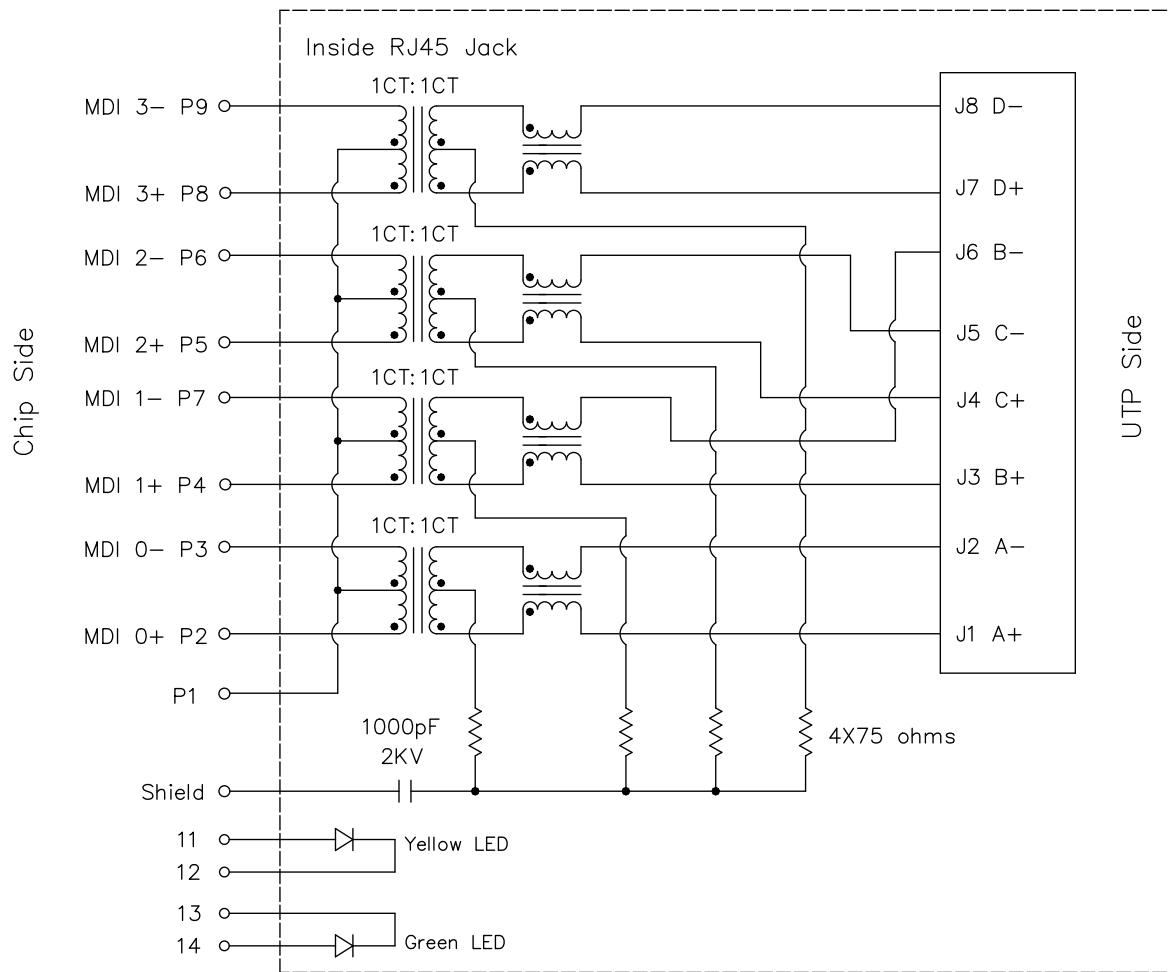


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Electrical Specification @25°C

Isolation:	2250VDC Min.	0.5mA 60sec UTP Side to Chip Side
OCL:	180uH Min.	@100KHz 100mV with 8mA DC
Insertion Loss:	-0.5dB Max.	@1MHz ~ 50MHz
Insertion Loss:	-1.0dB Max.	@50MHz ~ 125MHz
Return Loss:	-20dB Min.	@1MHz ~ 40MHz
Return Loss:	-18dB Min.	@40MHz ~ 60MHz
Return Loss:	-16dB Min.	@60MHz ~ 80MHz
Return Loss:	-14dB Min.	@80MHz ~ 100MHz
Return Loss:	-12dB Min.	@100MHz ~ 150MHz
Return Loss:	-9.5dB Min.	@150MHz ~ 200MHz
CDMR:	-30dB Min.	@1MHz ~ 125MHz
CDMR:	-25dB Min.	@125MHz ~ 200MHz
Crosstalk:	-28dB Min.	@1MHz ~ 125MHz
Crosstalk:	-25dB Min.	@125MHz ~ 200MHz

Schematics



H90324201

### Commercial standards, specifications and Summary:

RoHS Compliant

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

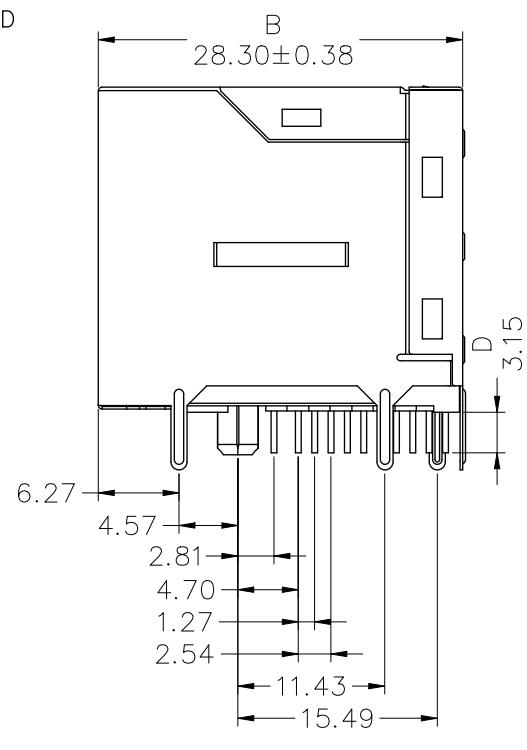
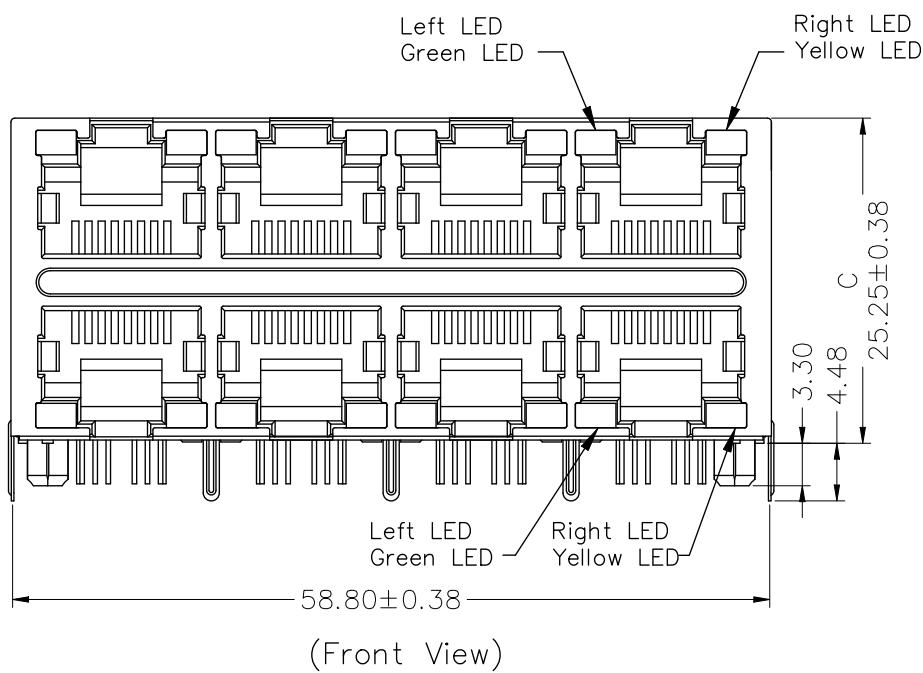
### Operating and Storage Temperature:

Operating Temperature Range: 0°C ~ +70°C

Storage Temperature Range: -40°C ~ +85°C

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Mechanical Dimensions:



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.: A0

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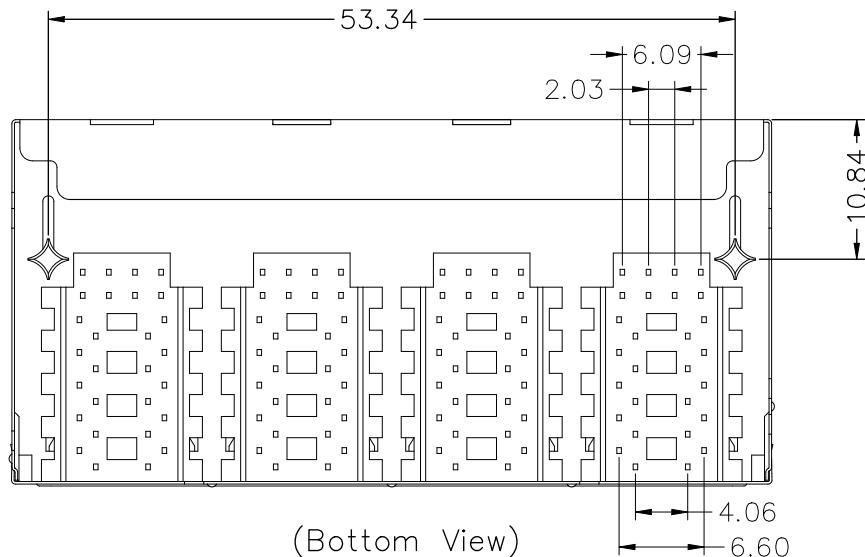
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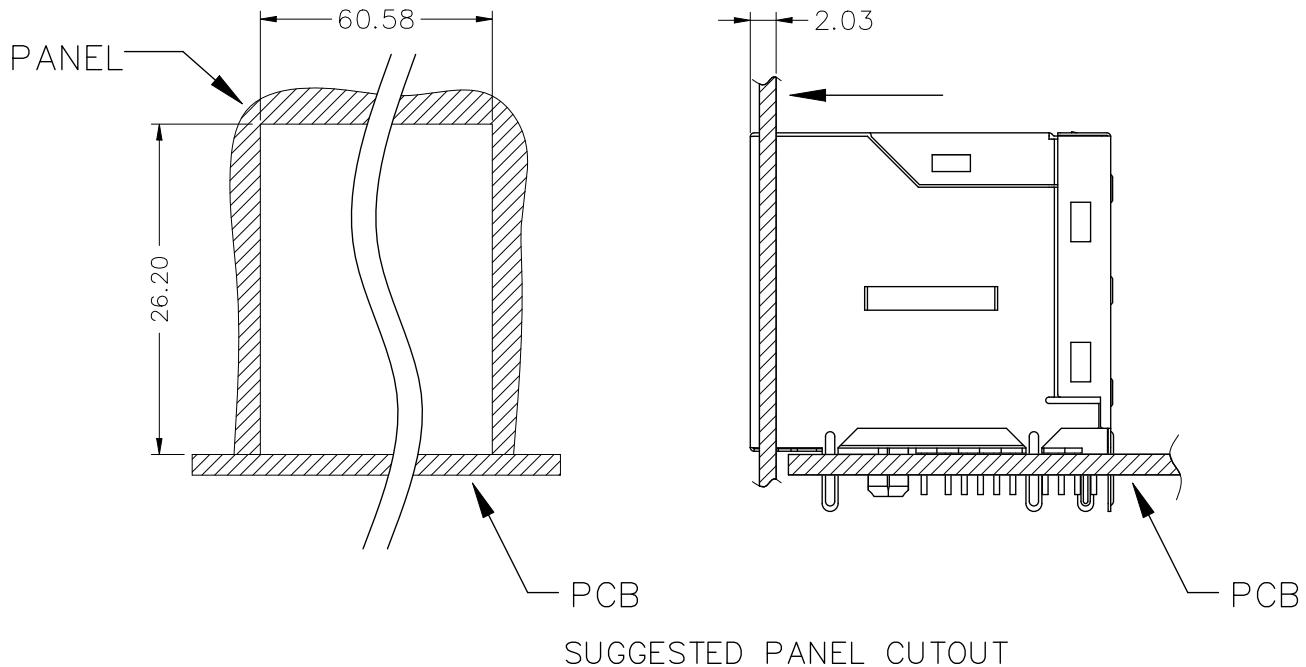
APPROVED:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416  
E-Mail: sales@hanrun.com http://www.hanrun.com

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Suggested Panel Cutout:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: A0

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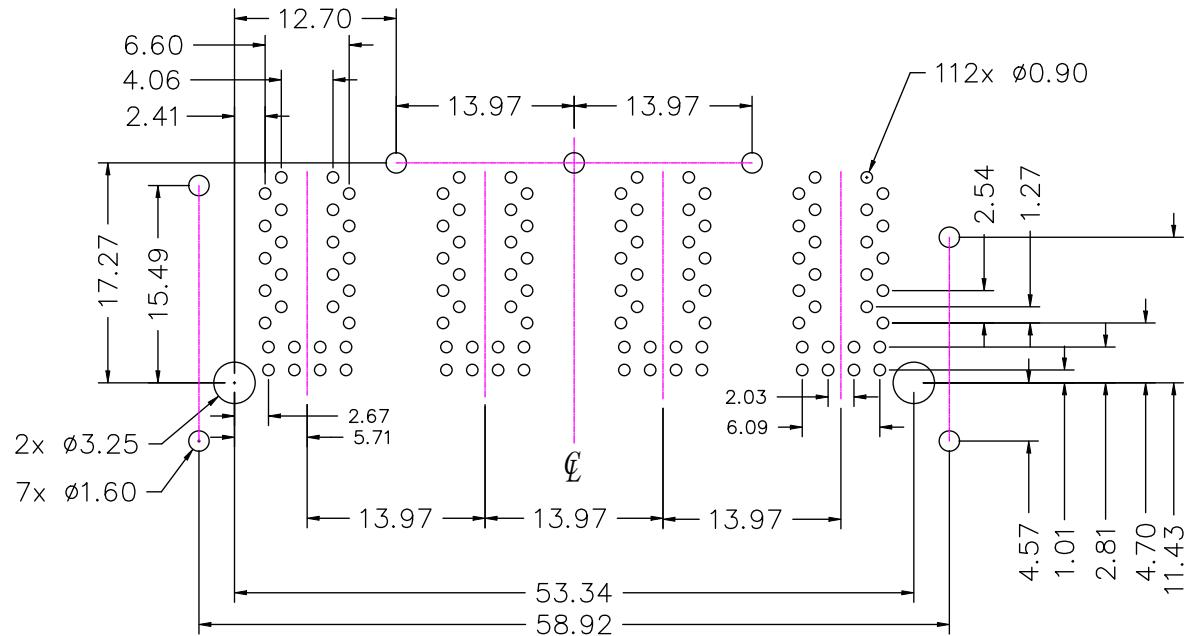
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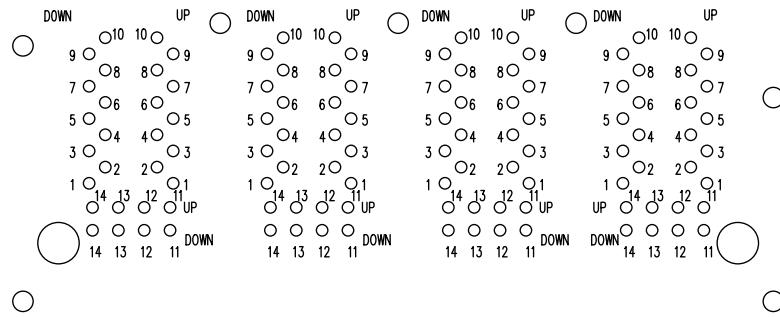
PCB Layout:



(Recommended PCB layout)

All dimension tolerance are  $\pm 0.08$  unless otherwise specified

Pin Assignments:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx  $\pm 0.25$

REV.: A0

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