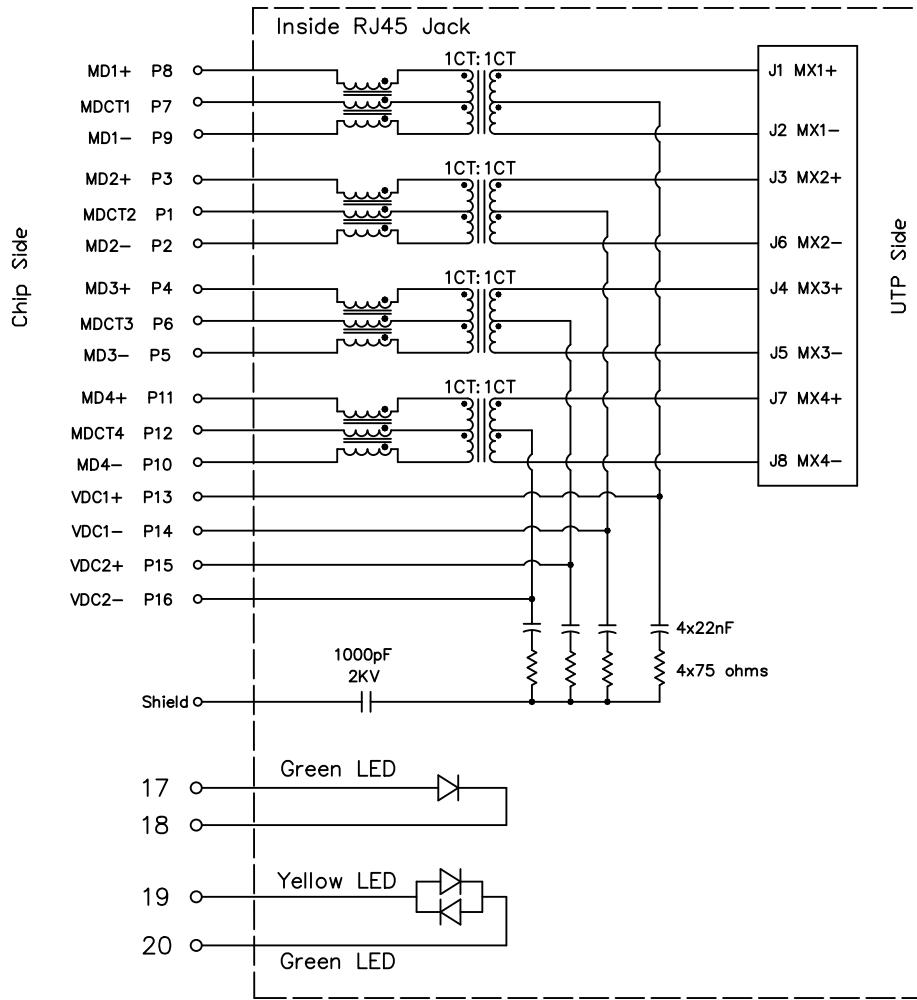


## HR911070AE

### Electrical Specification @25°C

Isolation:	2250VDC Min.	0.5mA 60sec UTP Side to Chip Side
OCL:	120uH Min.	@100KHz 100mV with 8mAADC
Insertion Loss:	-3.0dB Max.	@100KHz ~1MHz
Insertion Loss:	-1.5dB Max.	@1MHz ~ 250MHz
Insertion Loss:	-3.0dB Max.	@250MHz ~ 500MHz
Return Loss:	-18dB Min.	@1MHz ~ 40MHz
Return Loss:	-14dB Min.	@40MHz ~ 100MHz
Return Loss:	-11dB Min.	@100MHz ~ 250MHz
Return Loss:	-8dB Min.	@250MHz ~ 500MHz
CMRR:	-28dB Min.	@1MHz ~ 100MHz
CMRR:	-22dB Min.	@100MHz ~ 250MHz
CMRR:	-20dB Min.	@250MHz ~ 500MHz
DCMR:	-30dB Min.	@1MHz ~ 100MHz
DCMR:	-25dB Min.	@100MHz ~ 250MHz
DCMR:	-20dB Min.	@250MHz ~ 500MHz
Crosstalk:	-30dB Min.	@1MHz ~ 100MHz
Crosstalk:	-18dB Min.	@100MHz ~ 500MHz
PoE current	350mA Max.	@57VDC VDC1 or VDC2

### Schematics



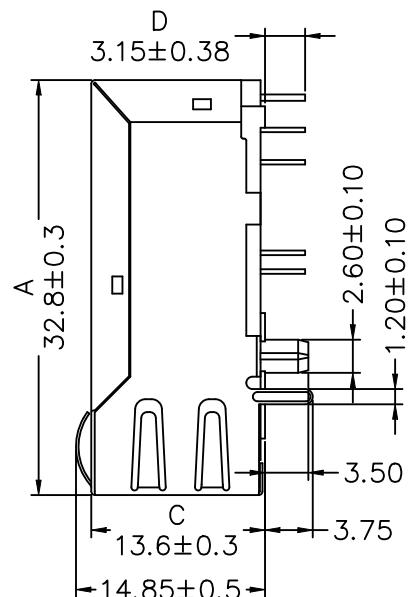
## HR911070AE

- RoHS Compliant (Pb Free)
- Sing port Tab-UP with internal magnetics for 10GBase-T
- Meets or Exceeds IEEE802.3an
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- UL Recognized Component: File # E330599

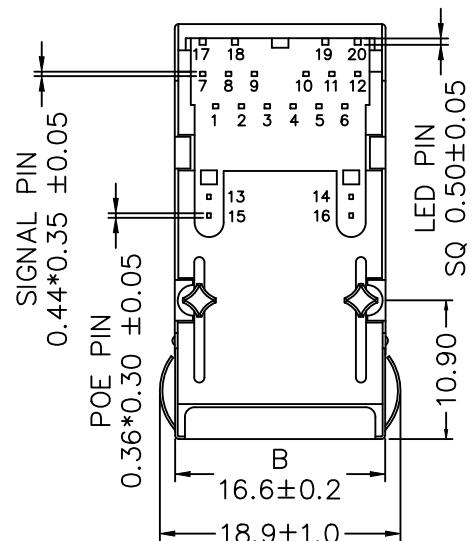
### Mechanical Dimensions:



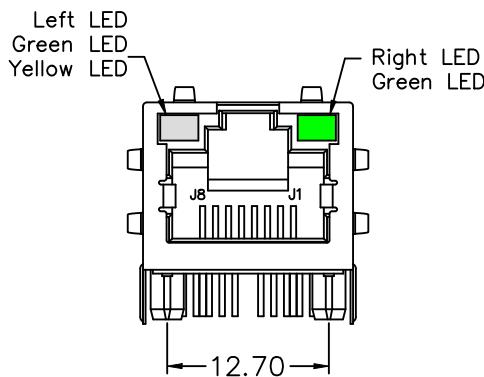
(Top View)



(Side View)



(Bottom View)



(Front View)

Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Green	568nm	1.8V/2.8V	20mA	squareness
Green/Yellow	568nm/585nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: A3

2 of 4

DRAWN:

CHECK:

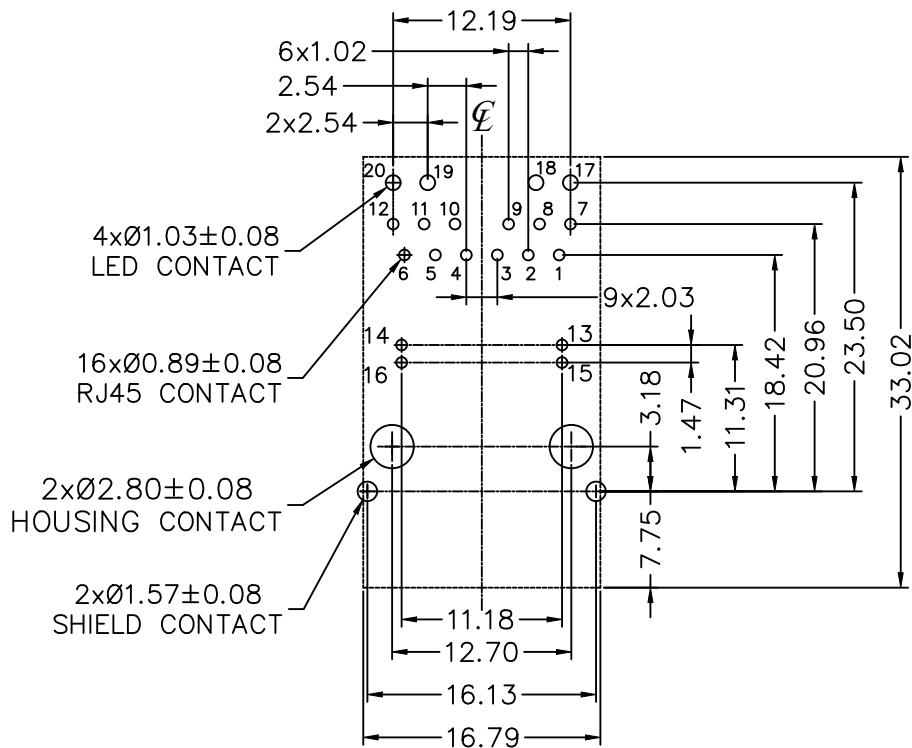
APPROVAL:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416

E-Mail: sales@hanrun.com http://www.hanrun.com

HR911070AE

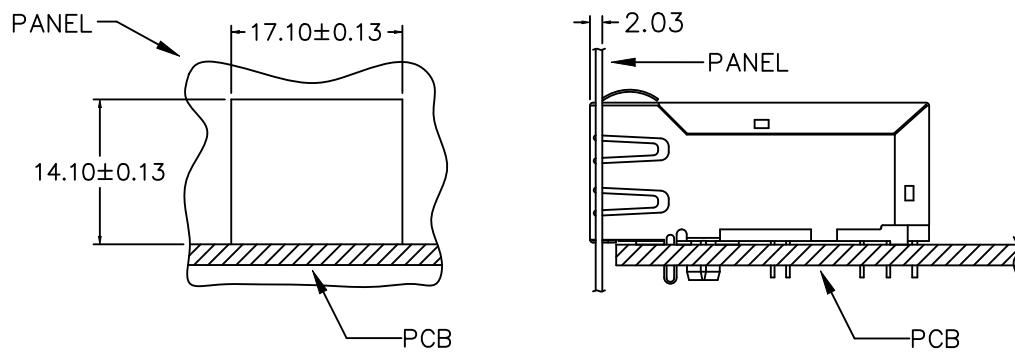
PCB Layout:



Recommended PCB layout (Component Side View)

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

Suggested Panel Cutout:



Dimensions in mm

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

REV.: A3

3 of 4

DRAWN:

CHECK:

APPROVAL:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416

E-Mail: sales@hanrun.com http://www.hanrun.com

## HR911070AE

### Material Specification:

Housing: PA66 GF Black UL94V-0

Shield: 50u" Nickel over 0.20mm Thickness Brass

Insert: PBT GF Black UL94V-0

Phosphor Bronze 0.35mm Thickness

Plating Area, 30u" gold over 50u" nickel

Solder Area, 100u" tin over 50u" nickel

Contact pin: PBT GF Black UL94V-0

Brass 0.35mm Thickness, 80u" tin over 30u" nickel

### Mechanical Performance:

Mating force: 5 lbs Maximum

Unmating force: 5 lbs Maximum

Plug to Jack Retention force: 20 lbs Minimum

Operating life: 750 Cycles Minimum

### Operating and Storage Temperature:

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

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