

HR911042A

### Electrical Specification @25°C

Isolation: 2250VDC 0.5mA 60sec (J1–8 to P1–12&Shield)

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

Insertion Loss: -1.0dB Maximum @300KHz ~ 100MHz / -1.50 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 / -8dB Minimum @150MHz ~ 250MHz

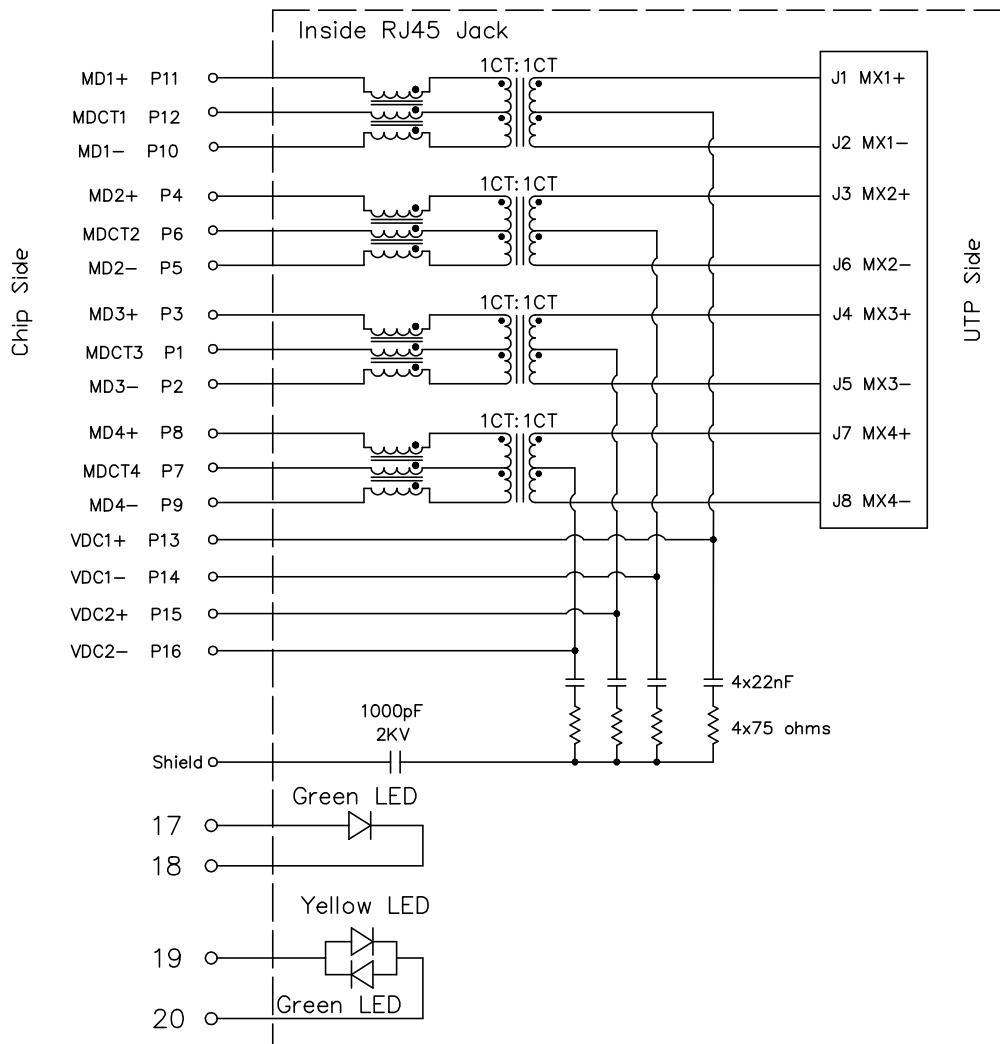
CMRR: -30dB Minimum @1MHz ~ 125MHz / -25dB Minimum @125MHz ~ 250MHz

Crosstalk: -30dB Minimum @1MHz ~ 125MHz / -25dB Minimum @125MHz ~ 250MHz

Designed To Support 57VDC 350mA per centre tap

(15W when using 2 centre taps; 30W when using 4 centre taps)

### Schematics



HR911042A

RoHS Compliant (Pb Free)

Sing port Tab-UP with internal magnetics for 2.5G/5GBase-T, Meets IEEE802.3bz

High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical

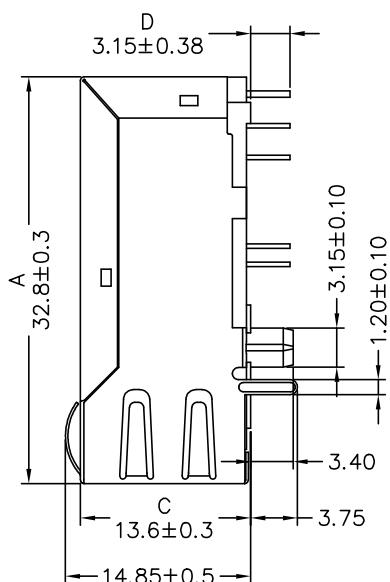
Minimum 2250VDC isolation per IEEE802.3 requirement

UL Recognized Component: File # E330599

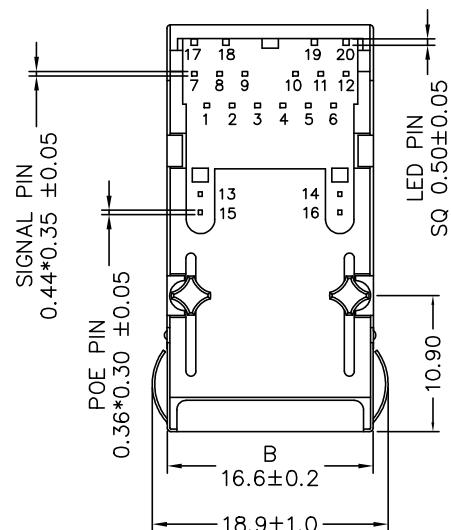
Mechanical Dimensions:



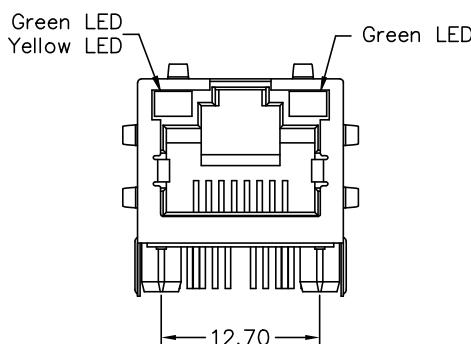
(Top View)



(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.: 00

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Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,

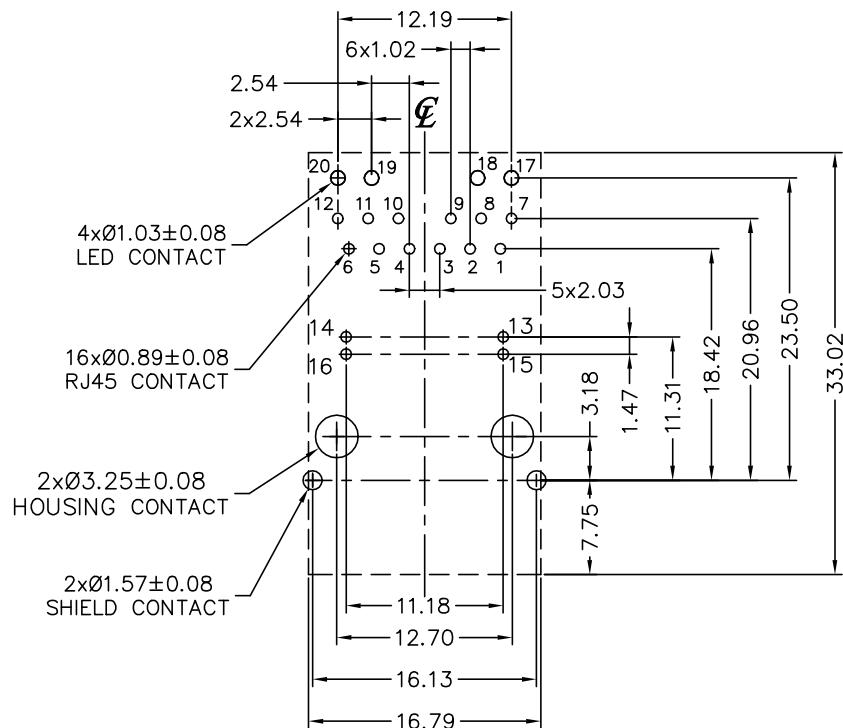
Zhongshan City, Guangdong Province, China

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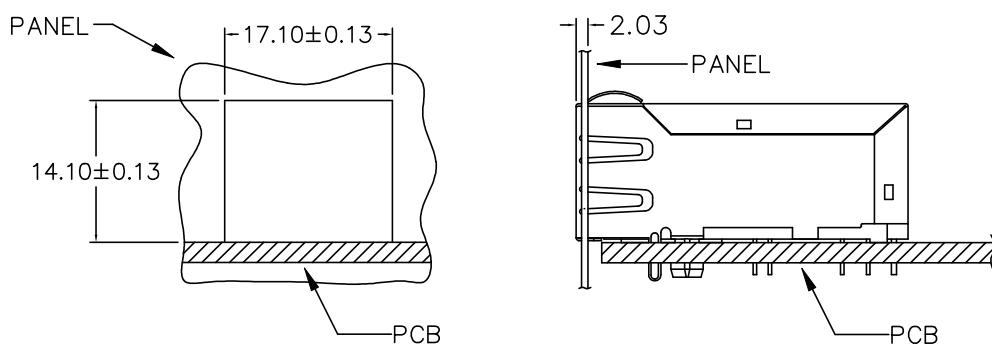
## PCB Layout:



### 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.: 00

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#### 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

Operating life: 750 Cycles Minimum

#### Operating and Storage Temperature:

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

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