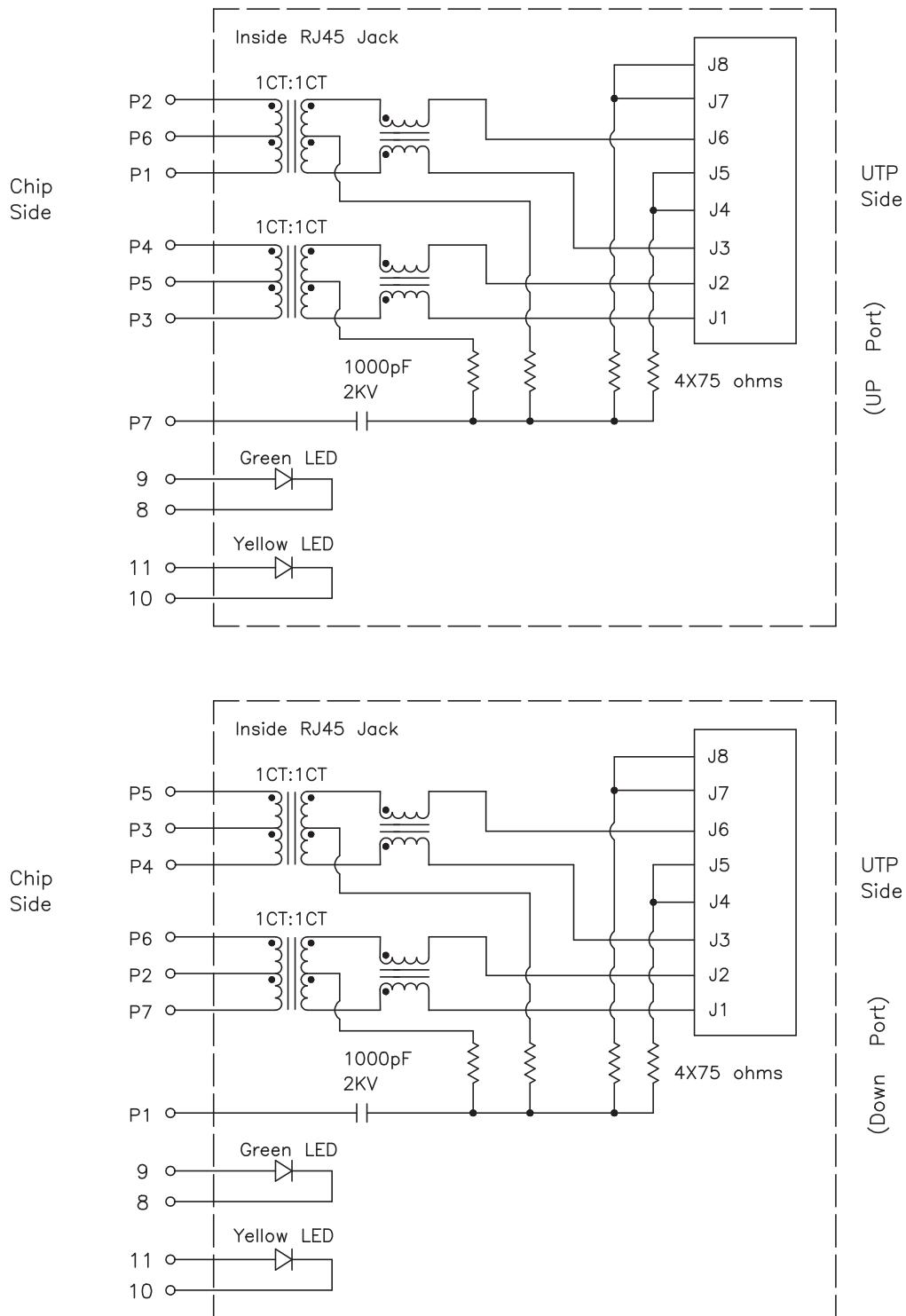


**HR852103HE**

Schematics



Notes: Connect CHS GND to PCB Ground

## HR852103HE

### Electrical Specification @25°C

RoHS Compliant (PB Free)

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

UP Port:

Isolation: 1500Vrms 0.5mA 60sec (J1~8 to P1~6)

Down Port:

Isolation: 1500Vrms 0.5mA 60sec (J1~8 to P2~7)

UP & Down Port:

Isolation: 1500Vrms 0.5mA 60sec (J1~8 to Shield)

OCL: 350uH Minimum @100KHz 100mV with 8mADC

J1~2; J3~6 DCR: 1.20 Ohms Maximum

Insertion Loss: -1.0dB Maximum @0.3MHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 30MHz

-13.5dB Minimum @30MHz ~ 60MHz

-12dB Minimum @60MHz ~ 80MHz

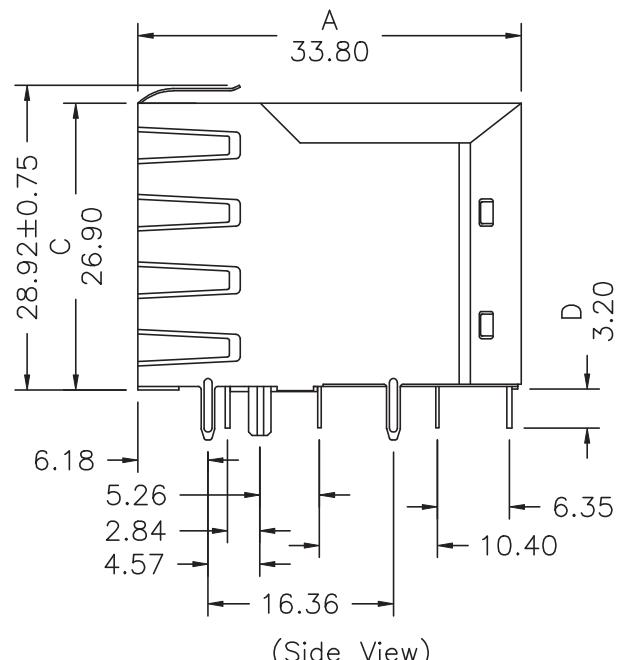
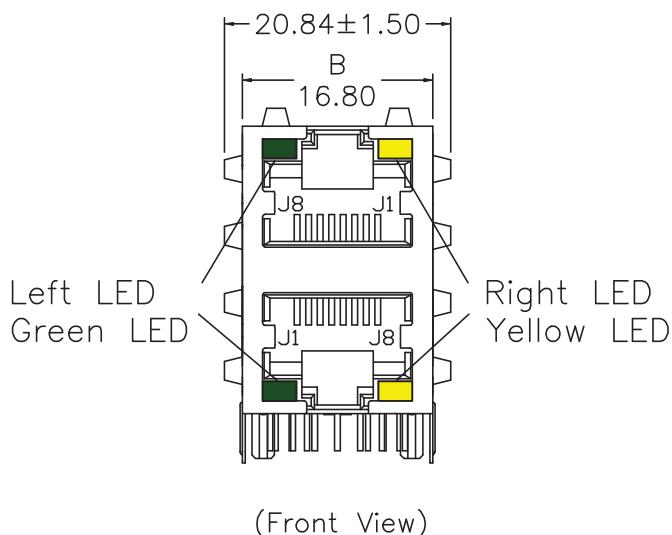
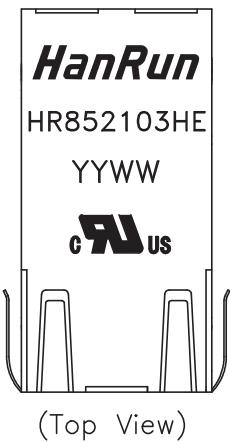
Crosstalk: -30dB Minimum @1MHz ~ 100MHz

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

## HR852103HE

- 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 1500Vrms 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

### Mechanical Dimensions:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 02

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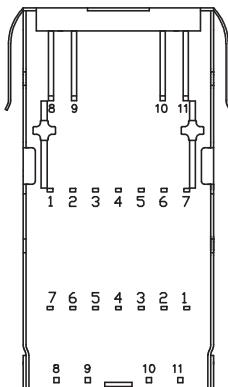
Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,  
Zhongshan City, Guangdong Province, China

Tel: (0760)22126805 22132332 Fax: (0760)22132339 Post code: 528416

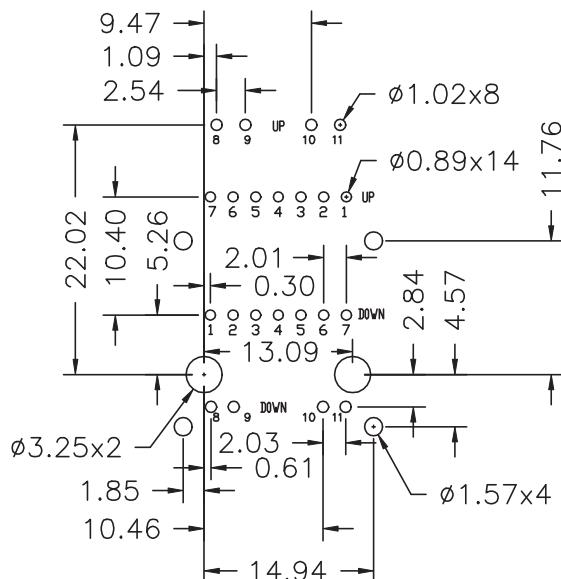
E-Mail: sales@hanrun.com http://www.hanrun.com

HR852103HE

Mechanical Dimensions:



(Bottom View)



RECOMMENDED PCB LAYOUT  
( PCB TOLERANCE :  $\pm 0.08$  )

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

Dimensions in mm

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

REV.: 02

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