

Stacked 2x1 RJ45 Connector
with Integrated Magnetics and LED
for 10/100Base-TX Applications



HR872103H

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 1500Vrms (UTP Side to Chip Side)

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

Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

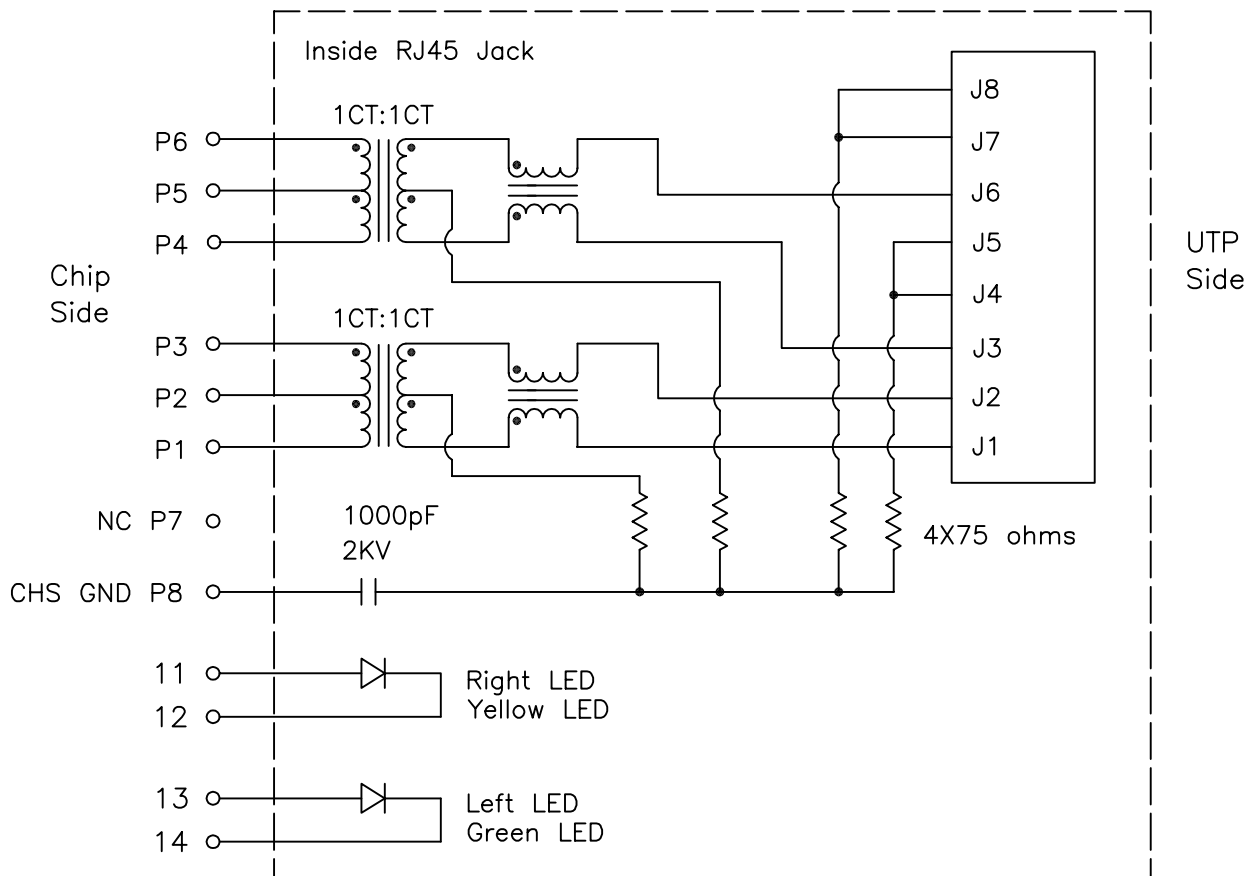
Return Loss: -18dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz
-12dB Minimum @60MHz ~ 80MHz

Differential to Common Mode Rejection: -30dB Typical @1MHz ~ 50MHz
-20dB Typical @50MHz ~ 150MHz

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

Crosstalk: -35dB Minimum @30MHz / -30dB Minimum @60MHz
-25dB Minimum @100MHz

Schematics

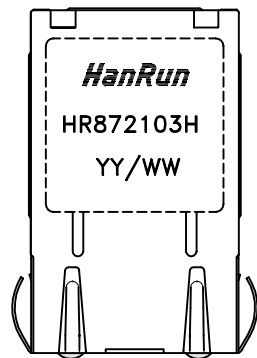


Notes: Connect CHS GND to PCB Ground

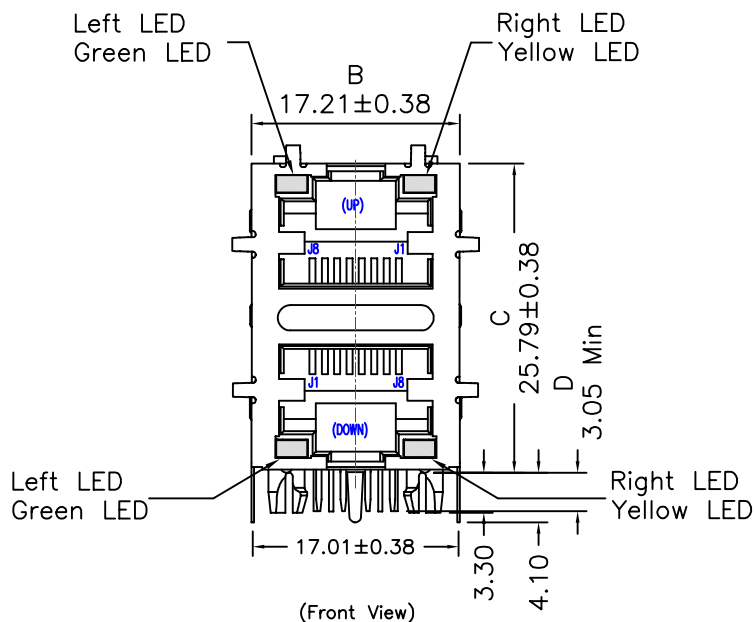
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- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3 standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 1500Vrms isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to place on PCB, Higher reliability and yields

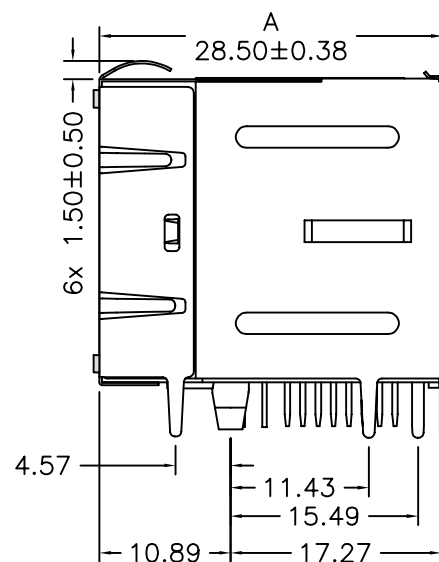
Mechanical Dimensions:



(Top View)



(Front View)



(Side View)

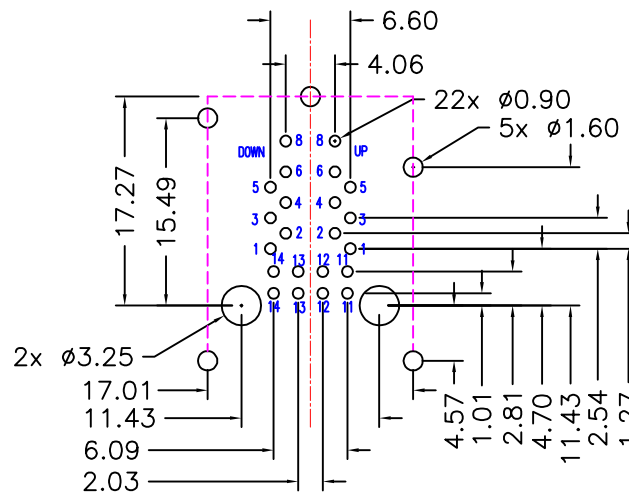
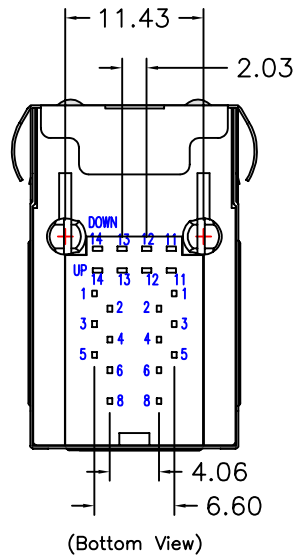
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.00

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Mechanical Dimensions:



SUGGESTED MOUNTING PATTERN (COMPONENT SIDE)

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

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.00

Remark:

1.Remove Pin#7; Pin#9; Pin#10