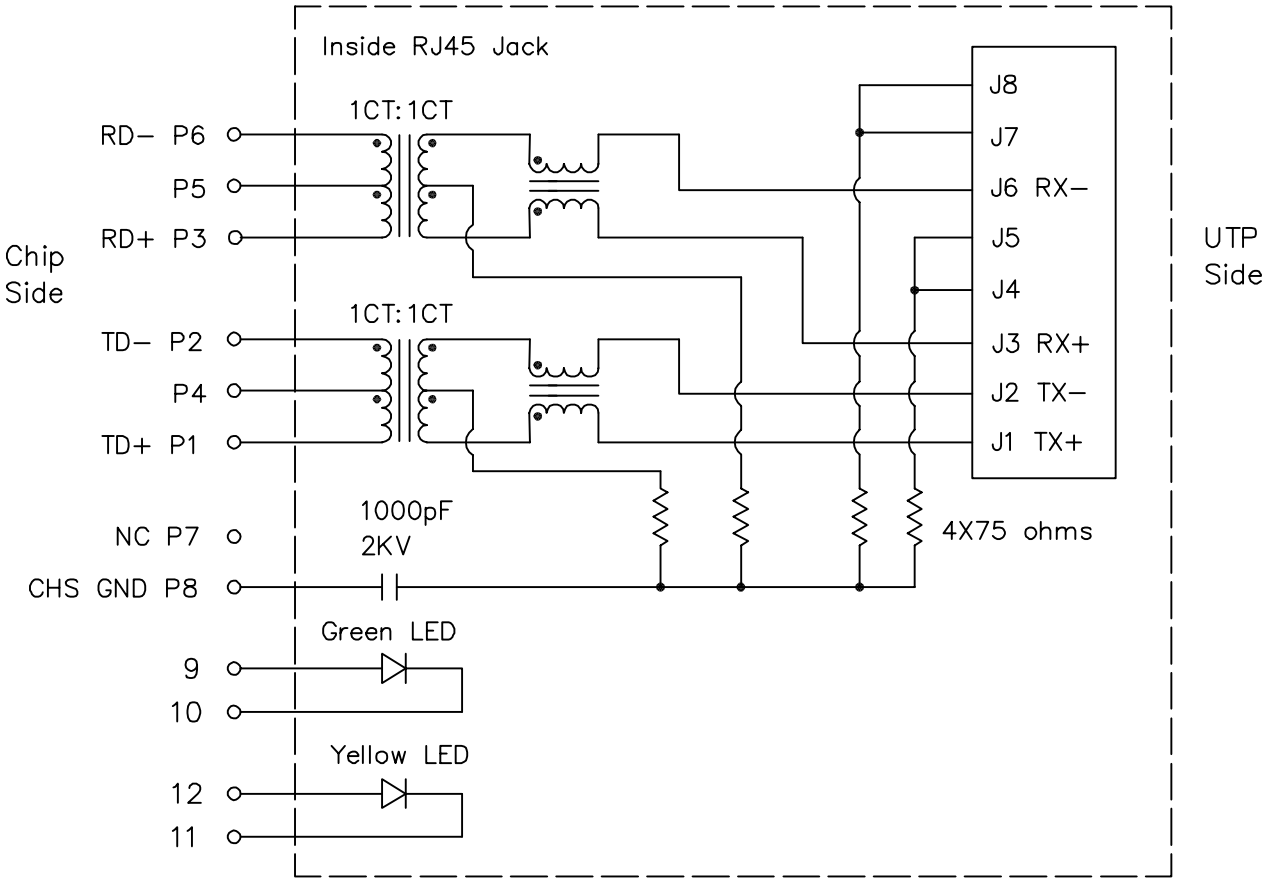
Electrical Specification @25°C

RoHS Compliant (PB Free)
Operating Temperature Range: −40°C ~ +85°C
Isolation: 2250VDC 0.5mA 60sec (UTP Side to Chip Side)
OCL: 350uH Minimum @100KHz 100mV with 8mADC
Insertion Loss: −1.0dB Maximum @300KHz ~ 100MHz
Return Loss: −20dB Minimum @1MHz ~ 10MHz / −16dB Minimum @10MHz ~ 30MHz
−12dB Minimum @30MHz ~ 60MHz / −10dB Minimum @60MHz ~ 80MHz
Common Mode Rejection: −30dB Minimum @1MHz ~ 50MHz
−20dB Minimum @50MHz ~ 150MHz
Crosstalk: −40dB Minimum @1MHz ~ 30MHz / −35dB Minimum @30MHz ~ 60MHz
−30dB Minimum @60MHz ~ 100MHz

Schematics



Notes: Connect CHS GND to PCB Ground

Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,
Zhongshan City, Guangdong Province, China
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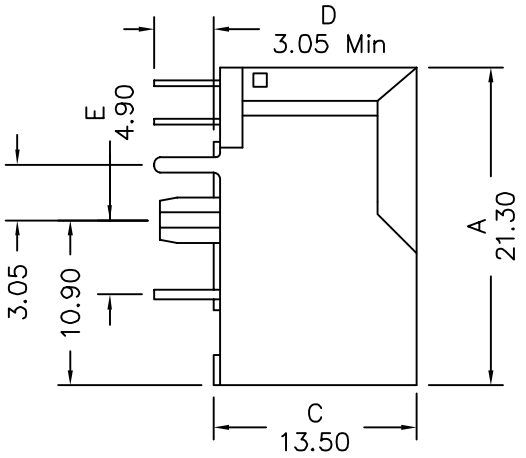
HRW5500RE

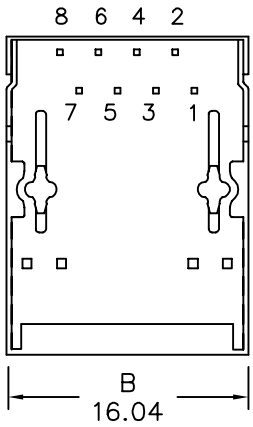
- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3 standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to be placed on PCB, higher reliability and yields

Mechanical Dimensions:

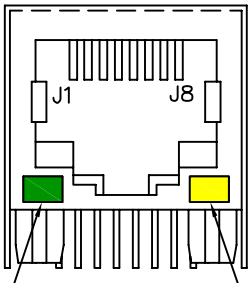
(Top View)



(Side View)



(Bottom View)



Left LED
Green LED

P1 P8

(Front View)

Right LED
Yellow LED

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 ±0.25

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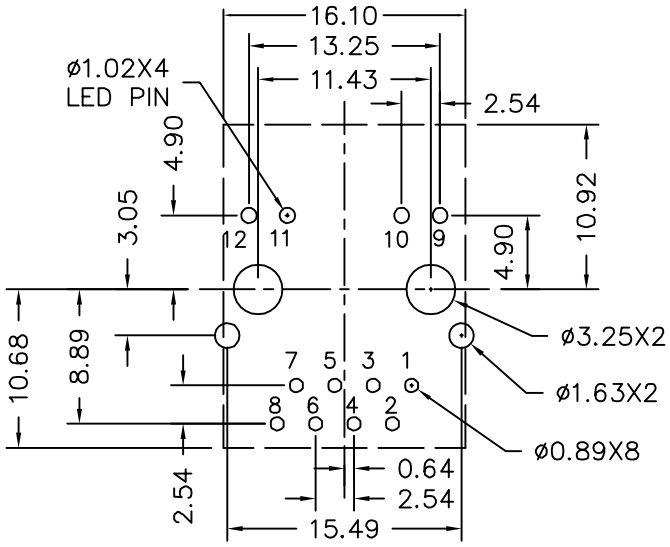
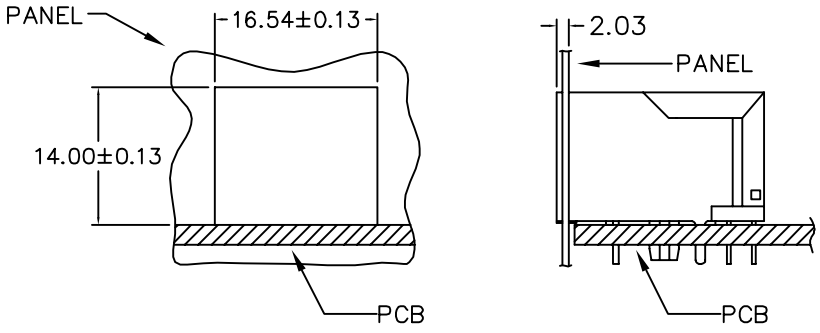
PCB Layout:



Recommended PCB layout (Component Side View)
All dimension tolerance are ±0.08 unless otherwise specified

Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm
Unless otherwise specified, Tolerance: .xx ±0.25
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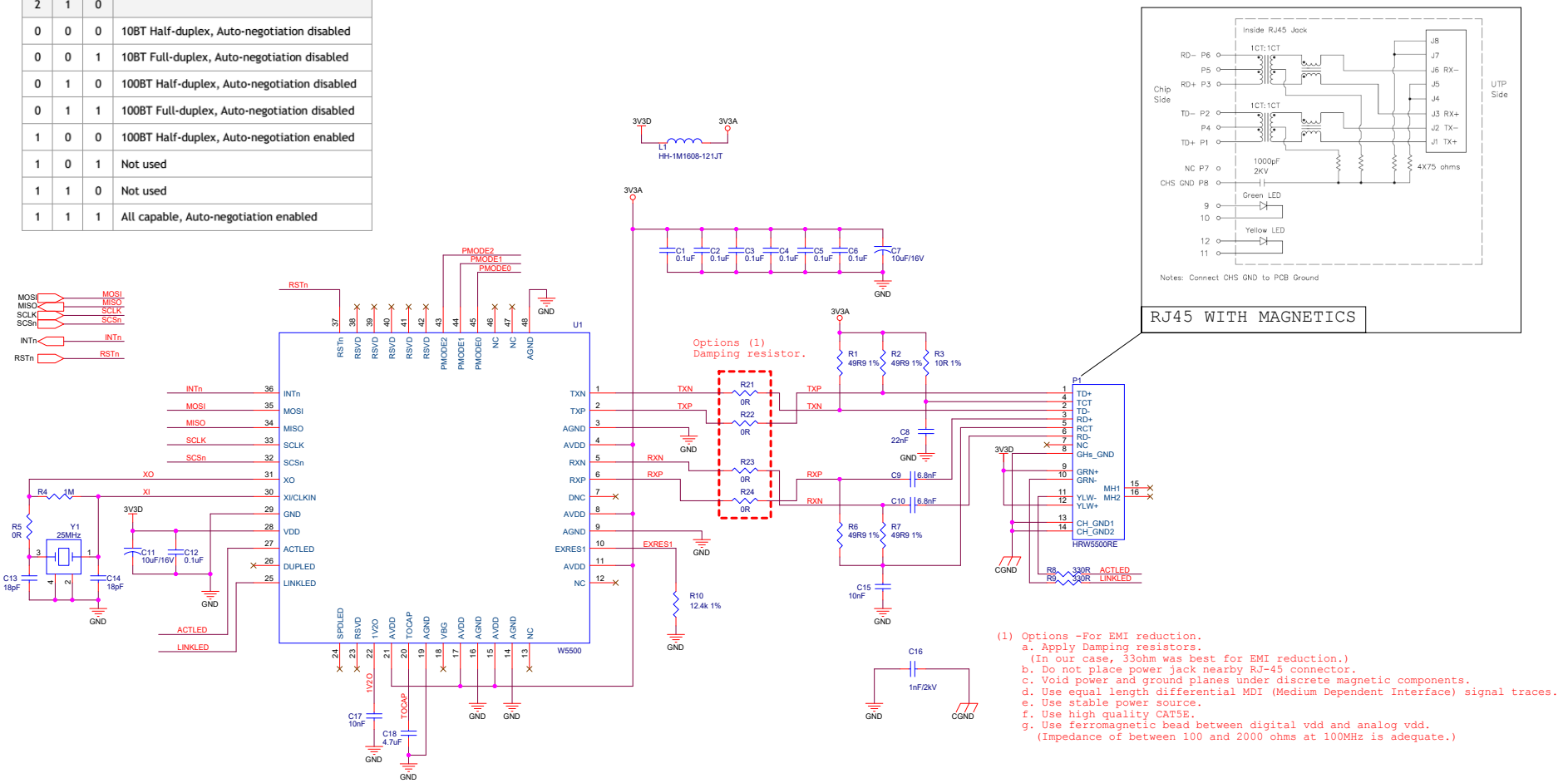
PMODE [2:0]			Description
2	1	0	
0	0	0	10BT Half-duplex, Auto-negotiation disabled
0	0	1	10BT Full-duplex, Auto-negotiation disabled
0	1	0	100BT Half-duplex, Auto-negotiation disabled
0	1	1	100BT Full-duplex, Auto-negotiation disabled
1	0	0	100BT Half-duplex, Auto-negotiation enabled
1	0	1	Not used
1	1	0	Not used
1	1	1	All capable, Auto-negotiation enabled



WIZnet		
Title	W5500-Ref-RJ45WithMag	
Size C	Document Number <Doc>	Rev
Date: Monday, October 27, 2017	Sheet 2 of 2	