

1x1 Port Tab-UP RJ45 Connector
with Magnetics Module and LED
for 10/100Base-T NIC Applications



HR941164CE

Electrical Specification @25°C

Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Isolation: 1500Vrms 0.5mA 60S (UTP Side to CHIP Side)

OCL: 350uH Minimum @100KHz 100mV with 8mA DC BIAS

Insertion Loss: -1.0dB Maximum @1MHz $\sim$ 100MHz

Return Loss: -18dB Minimum @1MHz $\sim$ 30MHz

-13.5dB Minimum @30MHz $\sim$ 60MHz

-12dB Minimum @60MHz $\sim$ 80MHz

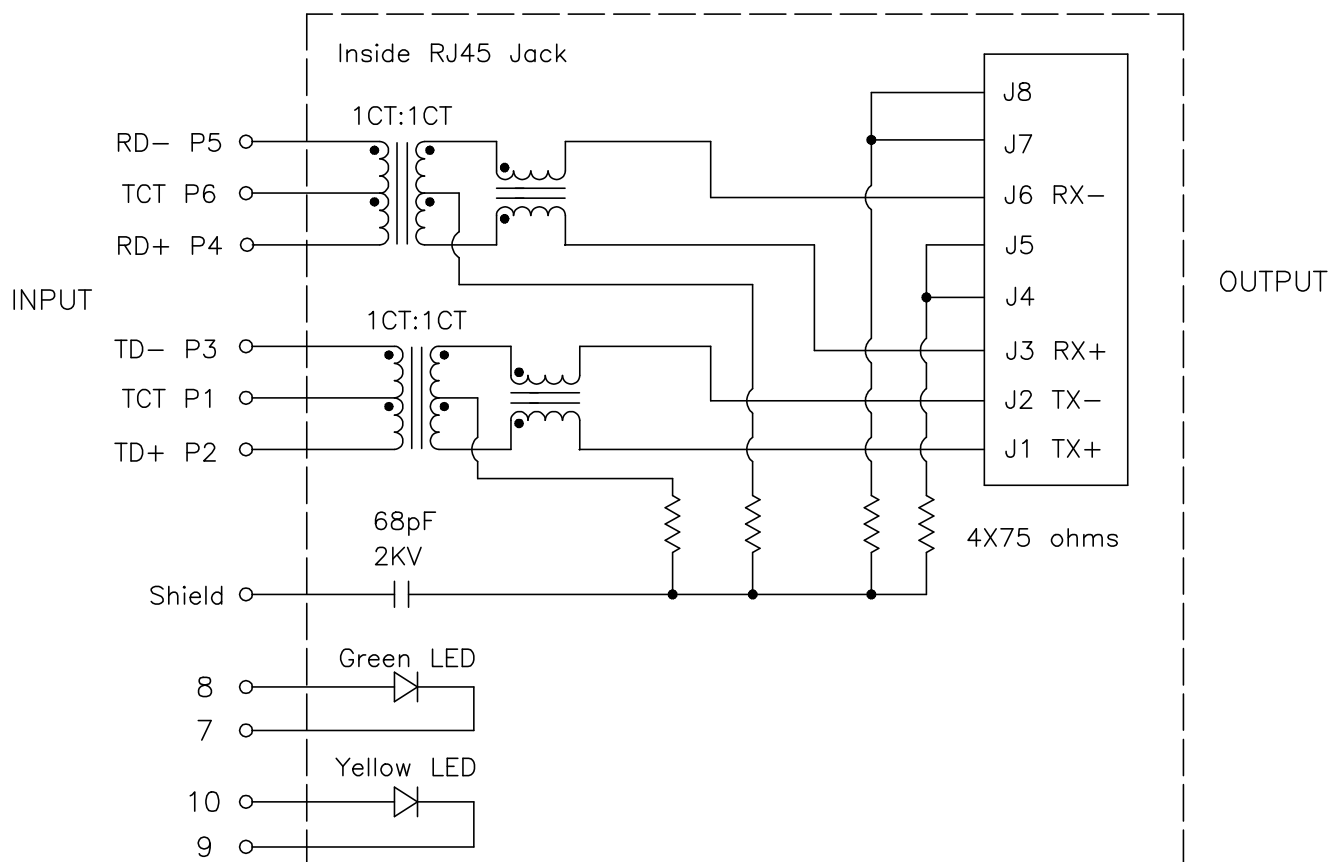
-10dB Minimum @80MHz $\sim$ 100MHz

Common to Common Mode Rejection: -30dB Minimum @100KHz $\sim$ 100MHz

Different to Common Mode Rejection: -30dB Minimum @100KHz $\sim$ 100MHz

CrossTalk: -30dB Minimum @0.5MHz $\sim$ 100MHz

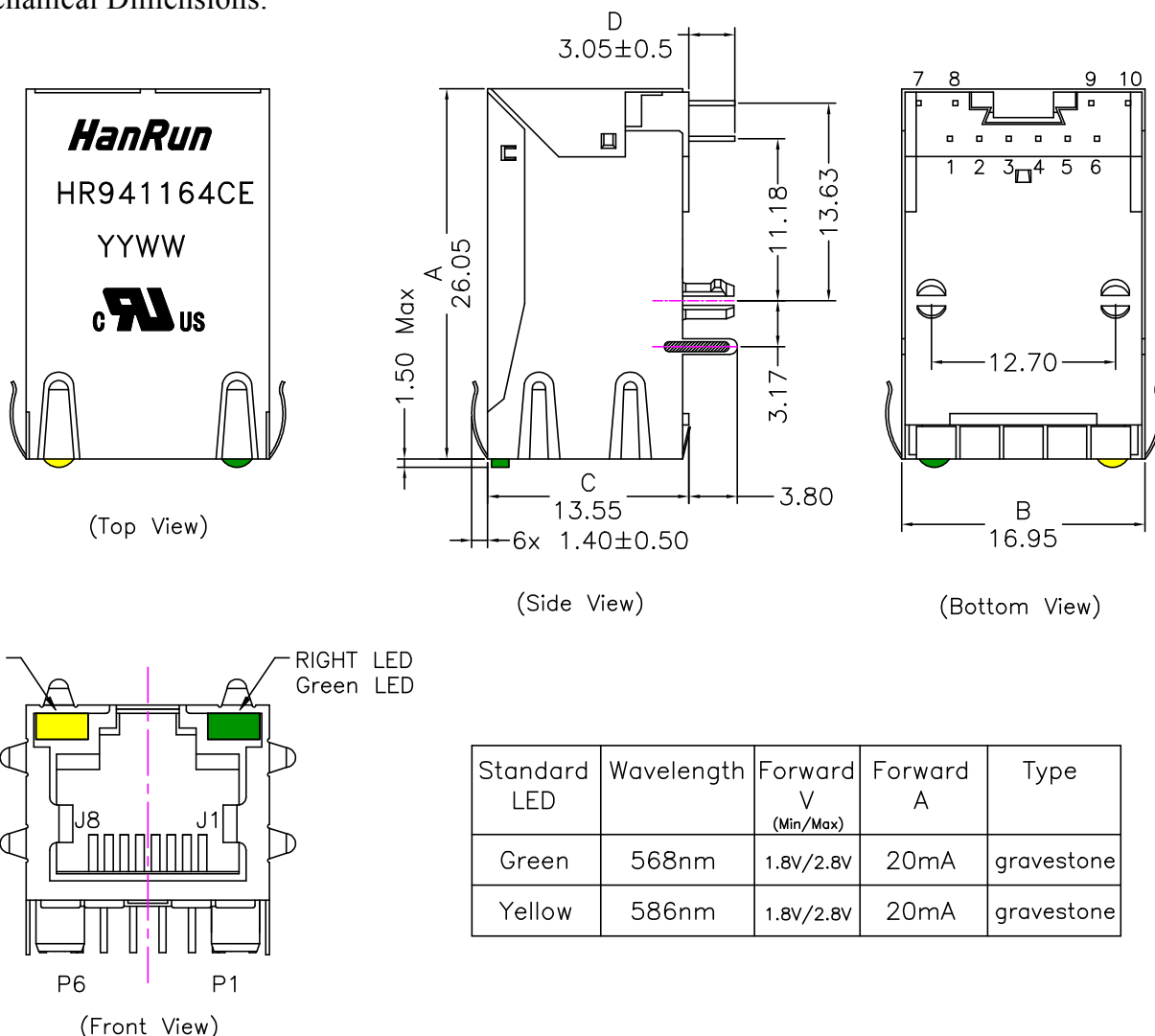
Schematics



HR941164CE

- RoHS Compliant (PB Free)
- Designed for Network Interface Card Application
- 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

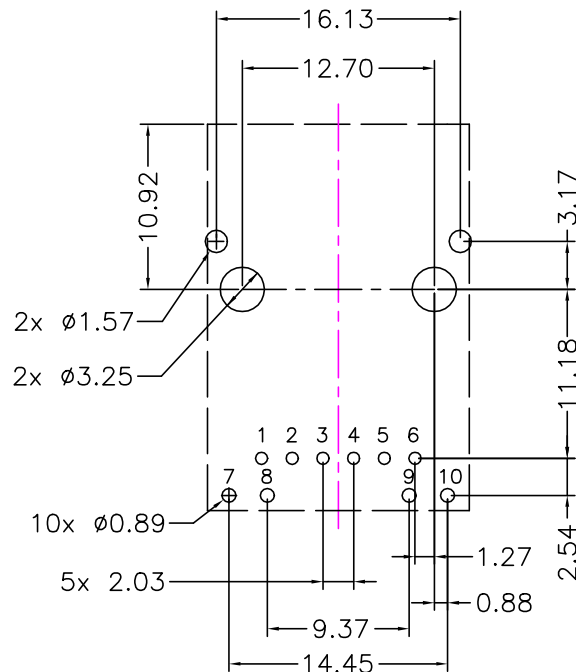
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 01

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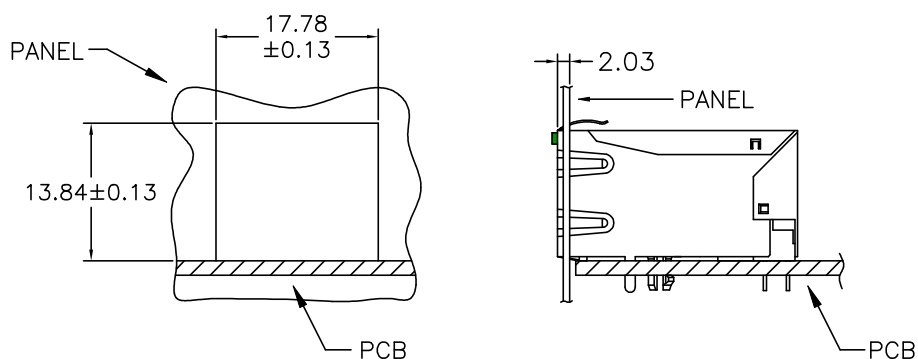
PCB Layout:



Recommended PCB layout (Component Side View)

All dimension tolerance are ± 0.08 unless otherwise specified

Suggested Panel Cutout:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.: 01

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