

1x1 Port Tab upright RJ45 Connector  
with Integrated Magnetics and LED  
for 100/1000Base-TX NIC Applications



HR871190A

Electrical Specification @25°C

RoHS Compliant (PB Free)

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

Isolation: 2250VDC 0.5mA 60Sec (UTP Side to Chip Side)

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

Insertion Loss: -1.1dB Maximum @1MHz ~ 100MHz

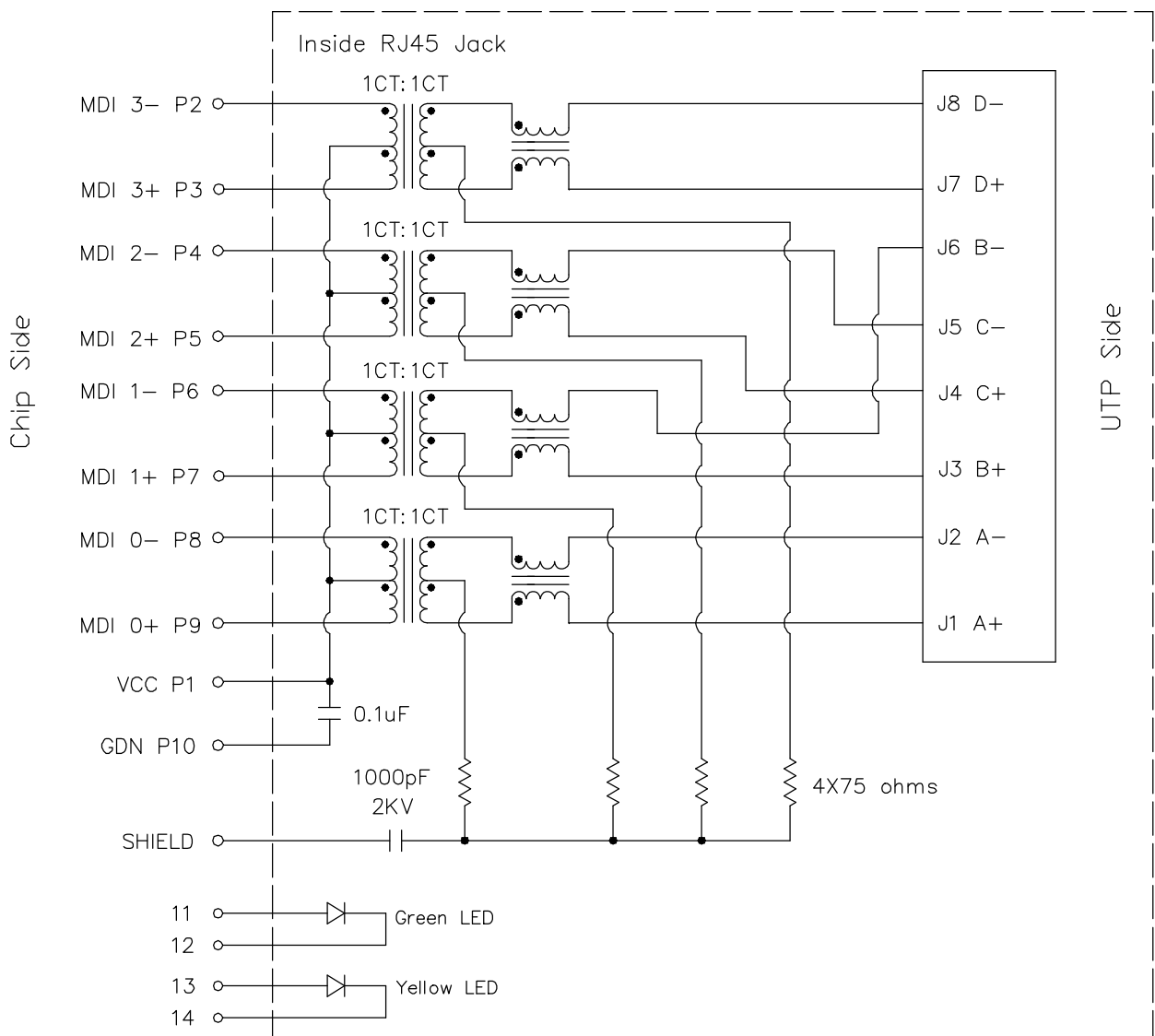
Return Loss: -18dB Minimum @1MHz ~ 40MHz / -13.5dB Minimum @40MHz ~ 60MHz

-11dB Minimum @60MHz ~ 80MHz / -10dB Minimum @80MHz ~ 100MHz

Common to Common Mode Rejection: -20dB Minimum @1MHz ~ 100MHz

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

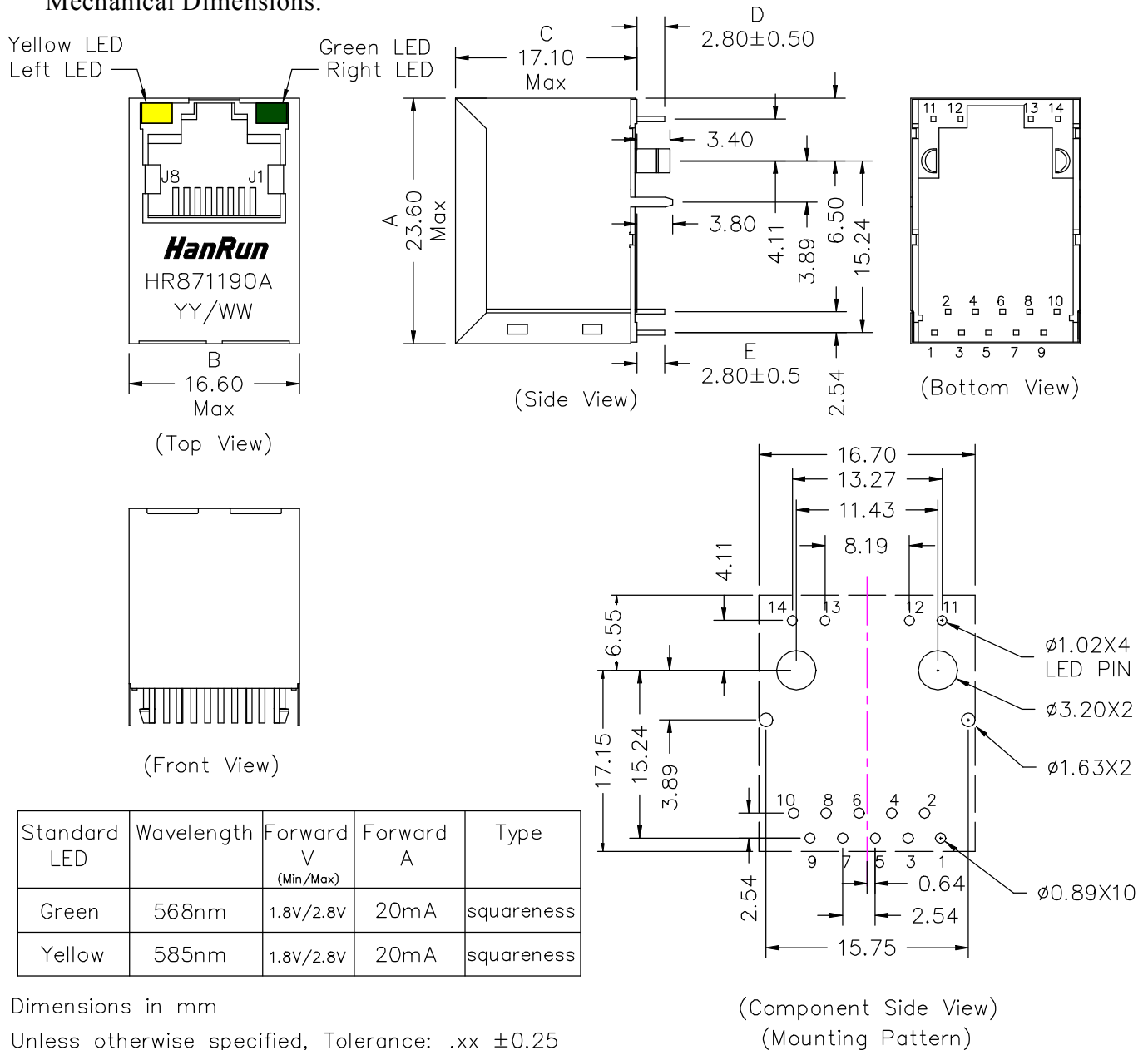
Schematics



## HR871190A

- RoHS Compliant (Pb Free)
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3ab 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 place on PCB, Higher reliability and yields

### Mechanical Dimensions:



Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: B/2

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