Single Port RJ45 Connector with Magnetics Module for 10/100Base-TX PoE application



HR891156C

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 1500Vrms (UTP Side to Chip Side)

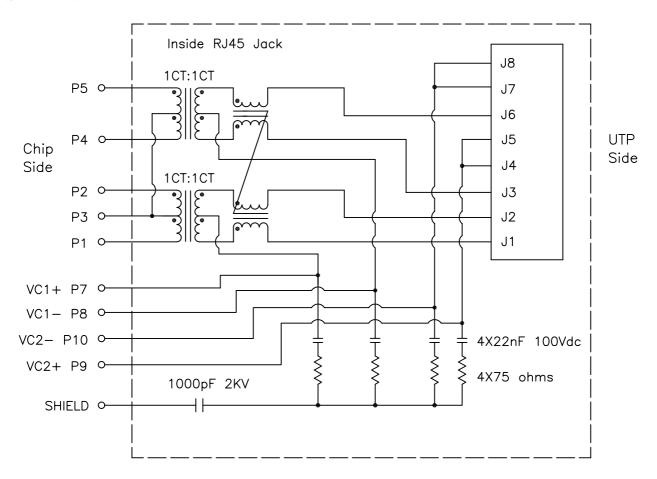
OCL: 350uH Minimum @100KHz 100mV with 8mADC Turns Ratio: (P1-P2) : (J1-J2) = 1CT:1CT $\pm 2\%$ Turns Ratio: (P4-P5) : (J3-J6) = 1CT:1CT $\pm 2\%$ Insertion Loss: -1.0dB Maximum @1MHz \sim 100MHz

Return Loss: -18dB Minimum $@1MHz \sim 30MHz / -16dB$ Minimum $@30MHz \sim 45MHz$ -14dB Minimum $@45MHz \sim 60MHz / -12dB$ Minimum $@60MHz \sim 80MHz$

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

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

Schematics



REV.A 1 of 2

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



Remark:

1.Remove Pin#6

2 of 2

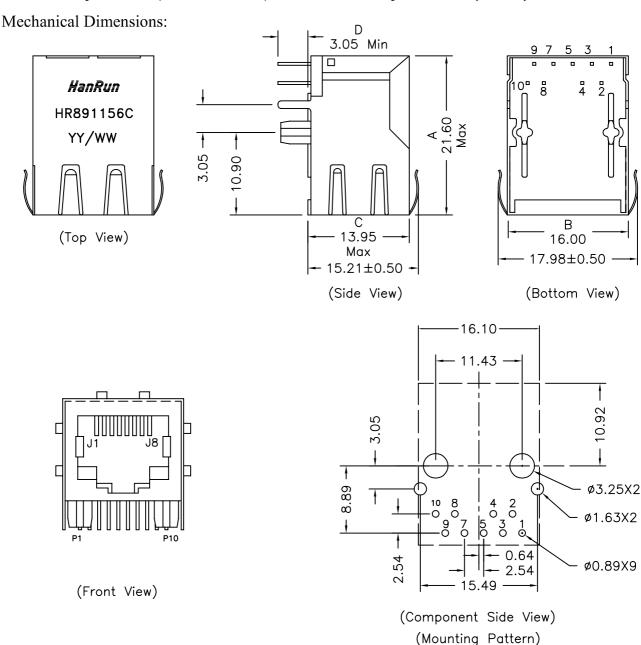
HR891156C

Dimensions in mm

REV.A

Unless otherwise specified, Tolerance: .xx ± 0.25

- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3af 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 be placed on PCB, higher reliability and yields



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