

**Single Port RJ45 Connector
with Integrated Magnetics
for 10/100Base-TX NIC Applications**

Part Number:

HY901105A

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 @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

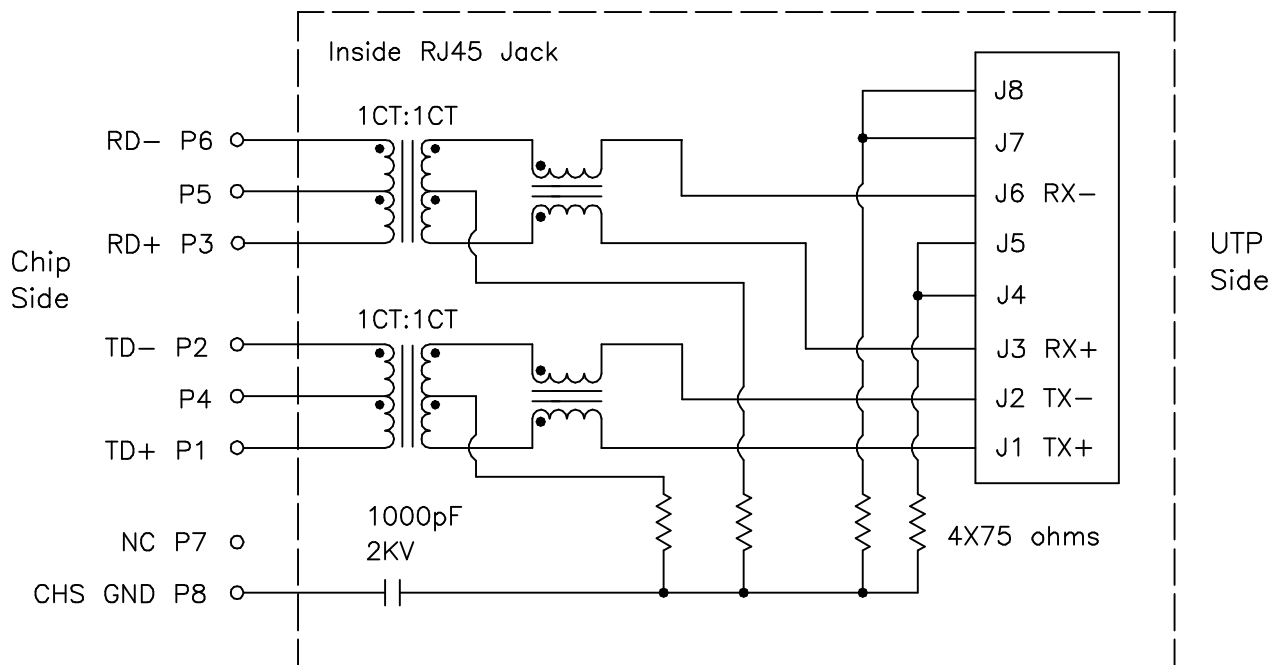
-20dB Minimum @50MHz ~ 150MHz

Crosstalk: -40dB Minimum @1MHz ~ 30MHz

-35dB Minimum @30MHz ~ 60MHz

-30dB Minimum @60MHz ~ 100MHz

Schematics



Notes: Connect CHS GND to PCB Ground

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Dimensions in mm	.xx ±0.25	Page 1/2	APPD:	Date:

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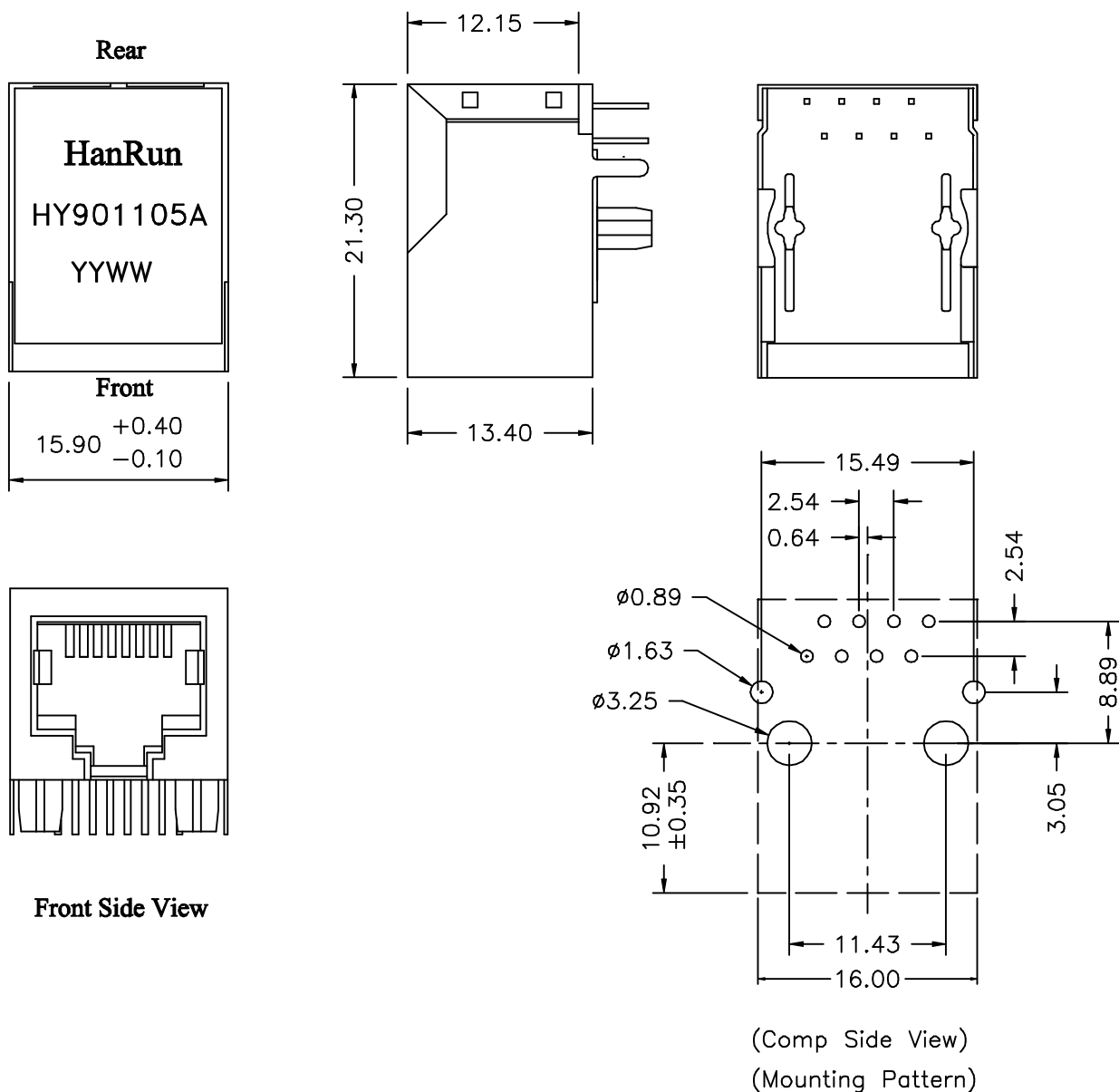


Part Number

HY901105A (Shield Type: A)

- **RoHS Compliant (Pb Free)**
- **Designed for Network Interface Card and Hub & Switch 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**

Mechanical Dimensions:



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