

1x1 Port Tab-UP RJ45 Connector
with Integrated Magnetics
for 10/100Base-TX NIC Applications

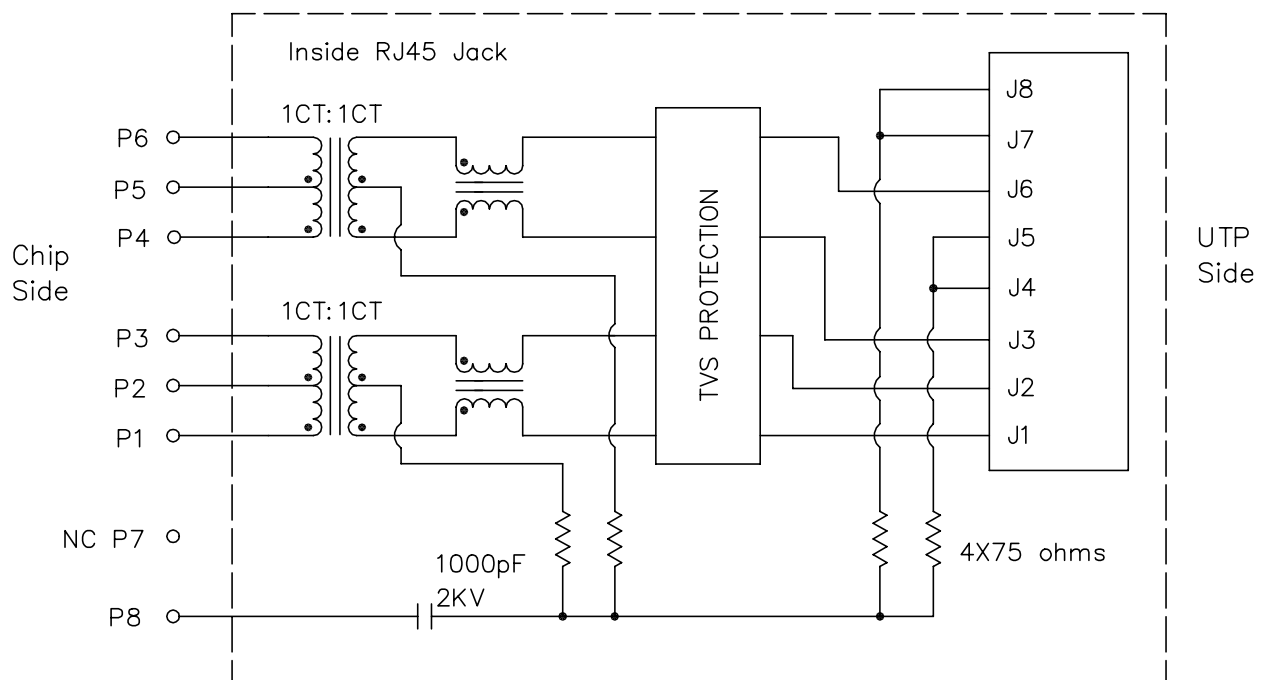


HR893112CE

Electrical Specification @25°C

Isolation: 2250VDC 0.5mA 60sec (J1-8 to P1-6)
OCL: 350uH Minimum @100KHz 100mV with 8mADC
Insertion Loss: -1.0dB Maximum @0.1MHz ~ 100MHz
Return Loss: -18dB Minimum @1MHz ~ 30MHz
 -12dB Minimum @30MHz ~ 80MHz
Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz
Crosstalk: -30dB Minimum @1MHz ~ 100MHz
HBM ESD level 3A
TVS PROTECTION: LC03-3.3

Schematics



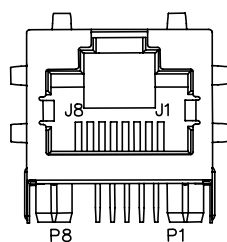
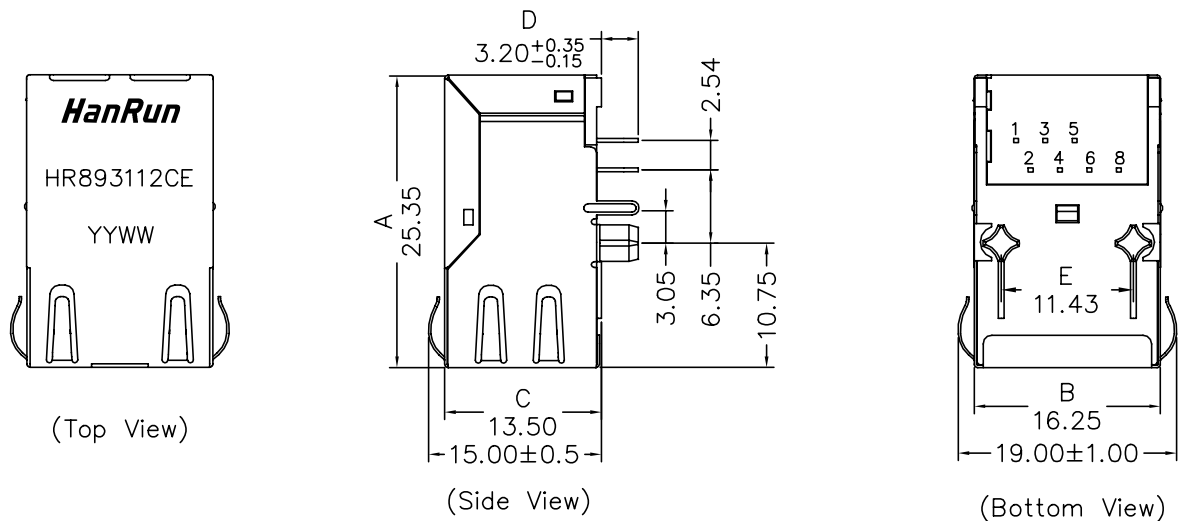
1x1 Port Tab-UP RJ45 Connector
with Integrated Magnetics



HR893112CE

- 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 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:



(Front View)

Remove Pin#7

Dimensions in mm

Unless otherwise specified, Tolerance: .xx $\pm$ 0.25

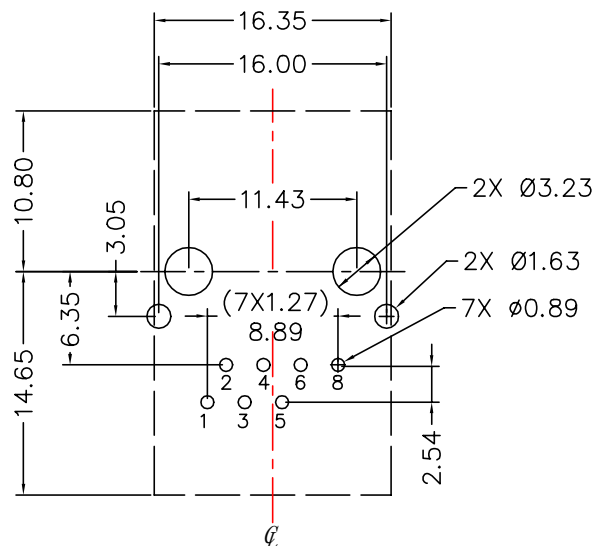
REV.: 01

2 of 4

Address: No.16, Industrial Road Central, Industrial Zone, Xiaolan Town,
Zhongshan City, Guangdong Province, China
Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com <http://www.hanrun.com>

HR893112CE

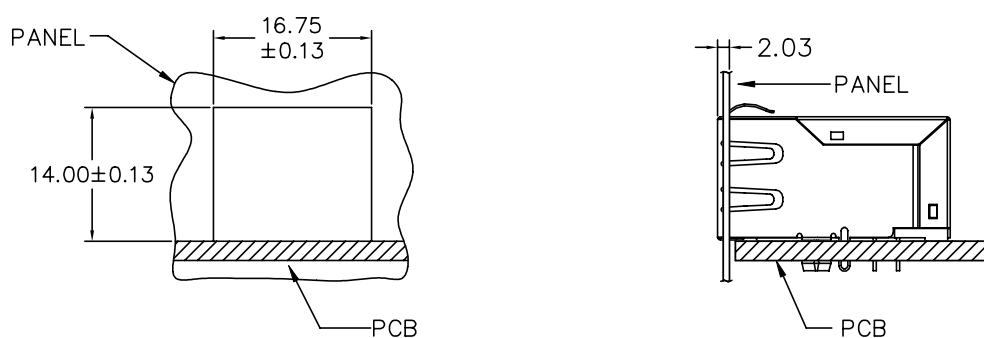
PCB Layout:



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

REV.: 01

3 of 4

HR893112CE

Material Specification:

Housing: PA66 Black UL94V-0
Shield: 30u" Nickel over 0.20mm Thickness Brass
Insert: PA66 Black UL94V-0
Phosphor Bronze 0.35mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel

Mechanical Performance:

Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Plug to Jack Retention force: 20 lbs Minimum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: -40°C ~ +85°C
Storage Temperature Range: -40°C ~ +85°C