

HR851192A

Electrical Specification @25°C

RoHS Compliant (PB Free)

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

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

Turns Ratio: 1:1 ±5%

Insertion Loss: -1.0dB Typical @1MHz ~ 100MHz.

Return Loss: -20dB Typical @1MHz ~ 10MHz / -16dB Typical @30MHz.

-12dB Typical @60MHz ~ 80MHz.

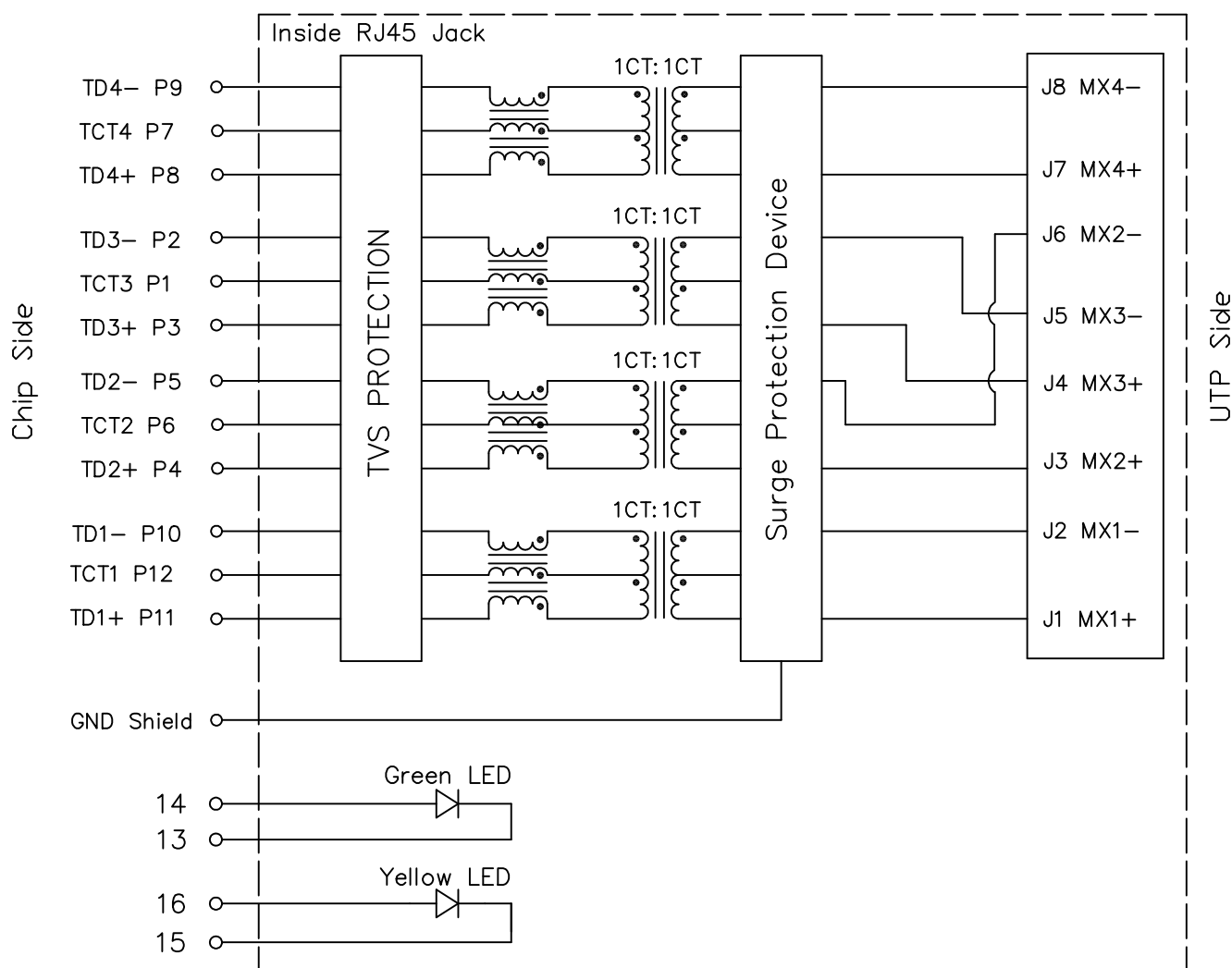
Common Mode Rejection: -30dB Typical @1MHz ~ 50MHz / -20dB Typical @50-130MHz.

Crosstalk: -40dB Typical @1MHz ~ 10MHz / -35dB Typical @30MHz ~ 60MHz.

-30dB Typical @60MHz ~ 100MHz.

Designed to meet IEC61000-4-5 level 3 (10/700uS: 4000V @40Ω; 8/20us: 1000A @2000V 2Ω)
HBM ESD level 3A

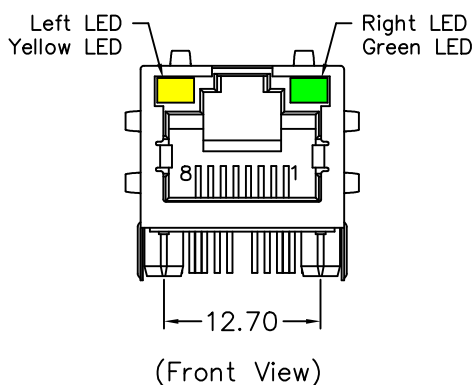
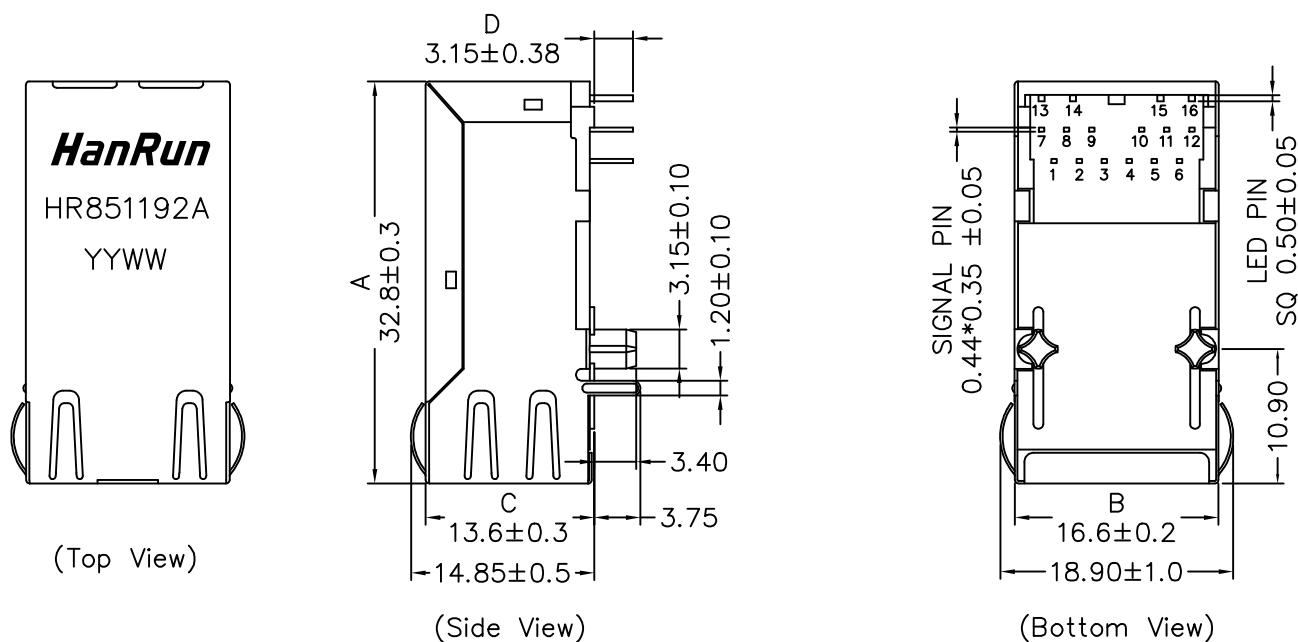
Schematics



HR851192A

- RoHS Compliant (PB Free)
- Sing port Tab-UP with internal magnetics for 10/100/1000Base-T
- 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

Mechanical Dimensions:



Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Yellow	586nm	1.8V/2.8V	20mA	squareness
Green	568nm	1.8V/2.8V	20mA	squareness

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 05

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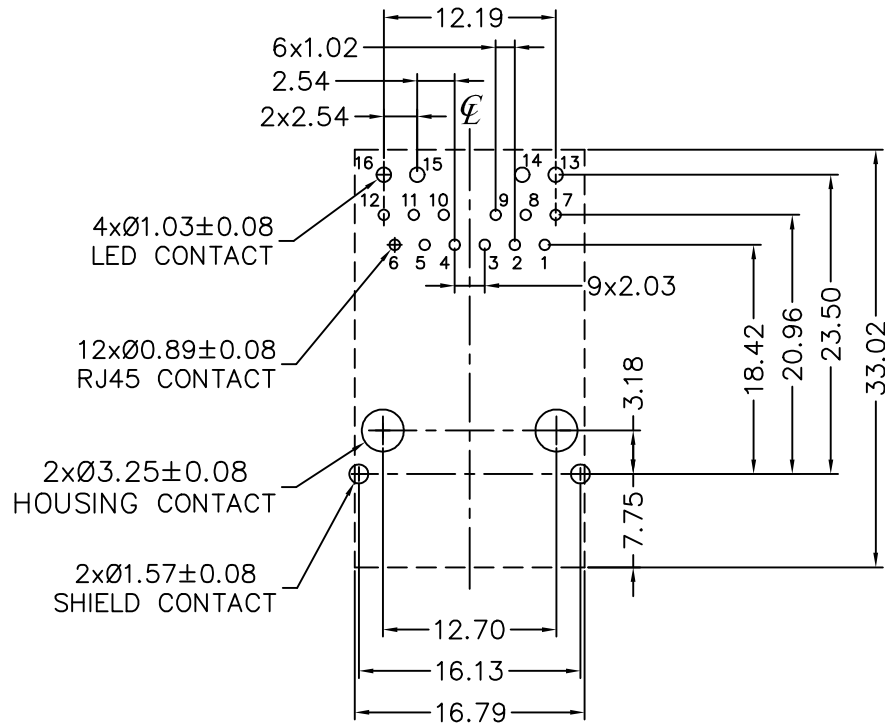
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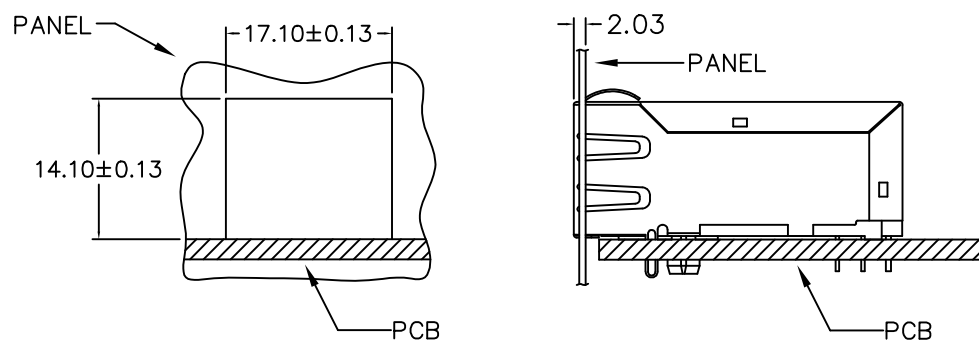
PCB Layout:



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: $.xx \pm 0.25$

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Material Specification:

Housing: PA66 GF Black UL94V-0
Shield: 50u" Nickel over 0.20mm Thickness Brass
Insert: PBT GF Black UL94V-0
Phosphor Bronze 0.35mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel
Contact pin: PBT GF Black UL94V-0
Brass 0.35mm Thickness, 80u" tin over 30u" nickel

Mechanical Performance:

Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: 0°C ~ +70°C
Storage Temperature Range: -40°C ~ +85°C