

HR981189C

Electrical Specification @25°C

RoHS Compliant (PB Free)

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

OCL: 180uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: -1.0dB Maximum @300KHz ~ 100MHz / -1.25 Maximum @100MHz ~ 250MHz

Return Loss: -20dB Minimum @1MHz ~ 40MHz / -18dB Minimum @40MHz ~ 60MHz

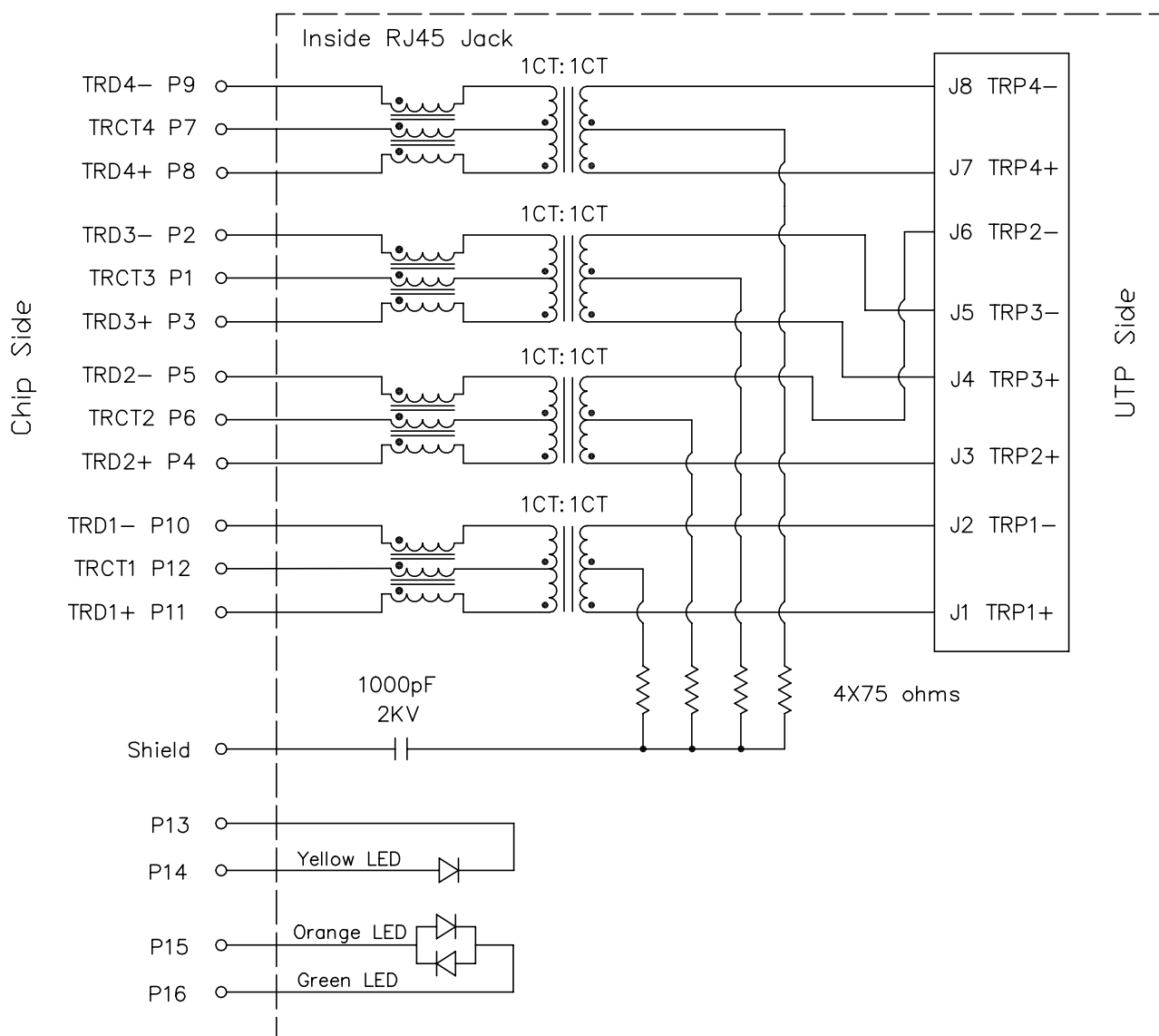
-16dB Minimum @60MHz ~ 80MHz / -14dB Minimum @80MHz ~ 100MHz

-12dB Minimum @100MHz ~ 150MHz / -9dB Minimum @150MHz ~ 250MHz

Common to Differential Mode Rejection: -30dB Minimum 1MHz ~ 250MHz

Crosstalk: -30dB Minimum 1MHz ~ 100MHz / -25dB Minimum 100MHz ~ 250MHz

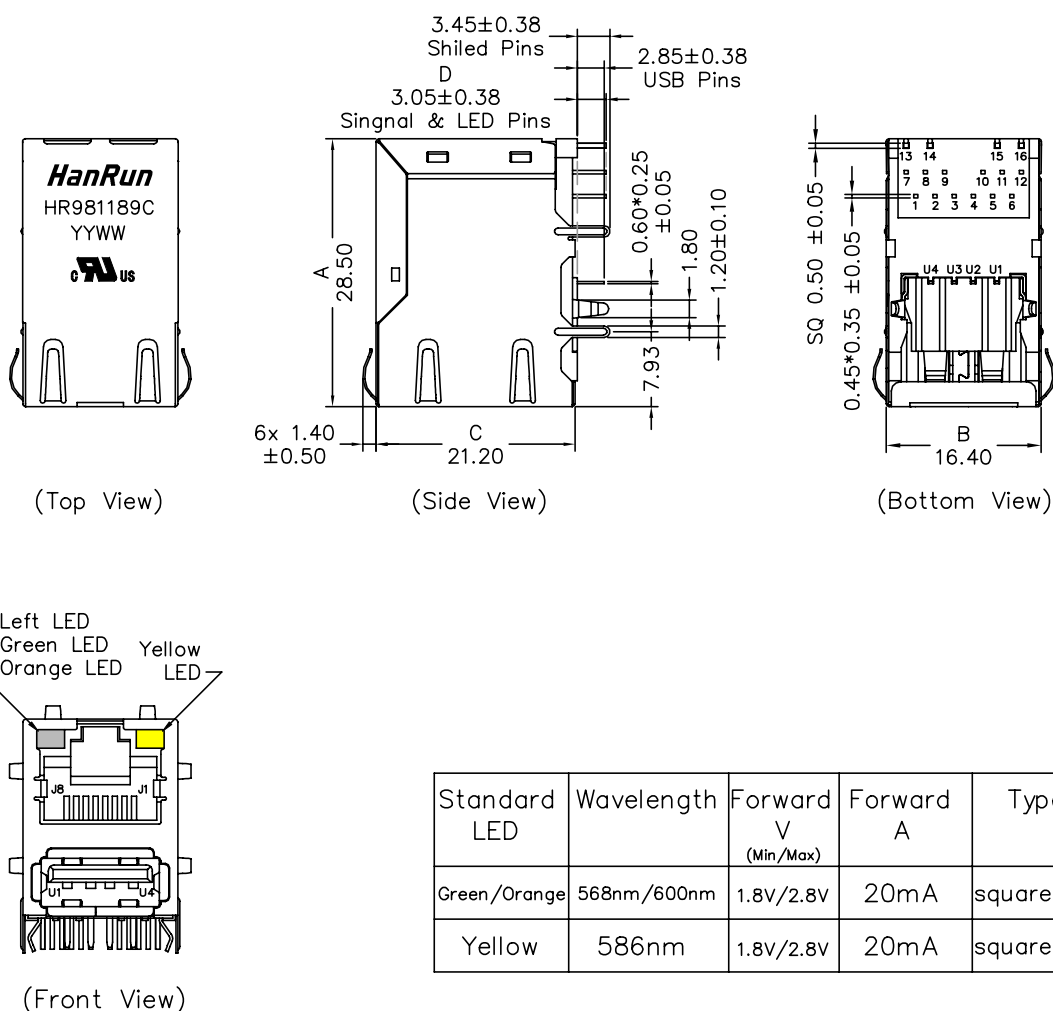
Schematics



HR981189C

- RoHS Compliant (PB Free)
- Meets or Exceeds IEEE802.3bz standards including 180uH 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 be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

Mechanical Dimensions:



Dimensions in mm
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 01

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Figure 1 shows two diagrams illustrating the dimensions of the PCB and panel. The left diagram is a top view showing the PCB dimensions: 17.10 \pm 0.13 mm for the panel width and 21.90 \pm 0.13 mm for the PCB height. The right diagram is a side view showing the panel thickness of 2.03 mm. Labels indicate the 'PANEL' and 'PCB' components.

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Material Specification:

RJ Housing: PBT GF Black UL94V-0
RJ Shield: 30u" Nickel over 0.20mm Thickness Brass
RJ Insert: PA66 GF Black UL94V-0
Phosphor Bronze 0.35mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel
USB Contact: Phosphor Bronze
30u" Gold plating on contact area
100u" tin plating on solder tails
50u" nickel underplating overall
USB Shield: Brass, 80u" nickel plated over all
USB Housing: PBT GF Black UL94V-0

Mechanical Performance:

RJ Mating force: 5 lbs Maximum
RJ Unmating force: 5 lbs Maximum
RJ Operating life: 750 Cycles Minimum
USB Mating force: 7.868 lbs Maximum
USB Unmating force: 2.248 lbs Minimum
USB Operating life: 1500 Cycles Minimum

Operating and Storage Temperature:

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