

HR872410HE

Electrical Specification @25°C

Isolation: 2250VDC 0.5mA 60sec (J1~8 to P1~5 & SHIELD)

OCL: 350uH Minimum @100KHz 100mV with 11mADC

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 ~ 100MHz

Return Loss: -16dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz
-12dB Minimum @60MHz ~ 80MHz / -10dB Minimum @80MHz ~ 100MHz

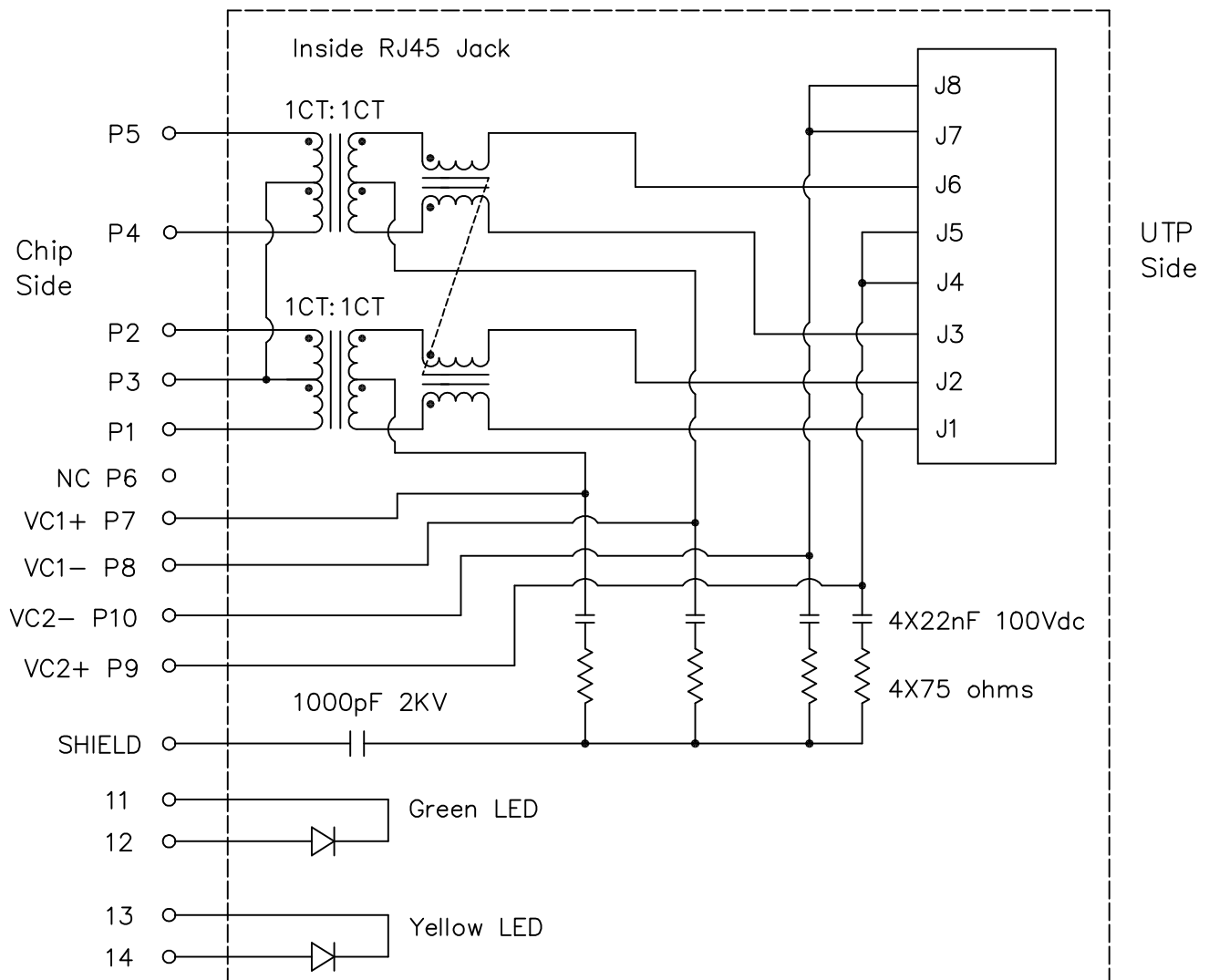
Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

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

Designed To Support 57VDC, 30W When Using Any Two Channels

Designed To Support 57VDC, 60W Applications When Using All 4 Channels

Schematics



HR872410HE

Commercial standards, specifications and Summary:

RoHS Compliant (Pb Free)
Meets or Exceeds IEEE802.3at standards including 350uH Min OCL with 11mADC
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
UL Recognized Component: File # E330599

Material Specification:

Housing: PA46 GF Black UL94V-0
Shield: 50u" Nickel over 0.20mm Thickness Brass
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
RJ45 Contact pin: PA46 GF Black UL94V-0
Brass; 100u" Tinning
LED Contact pin: PBT GF Black UL94V-0
Brass; 100u" Tinning
Adapting piece: PBT GF Black UL94V-0
Brass; 100u" Tinning

Mechanical Performance:

Contact resistance: 30 mΩ Maximum
Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

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

Dimensions in mm

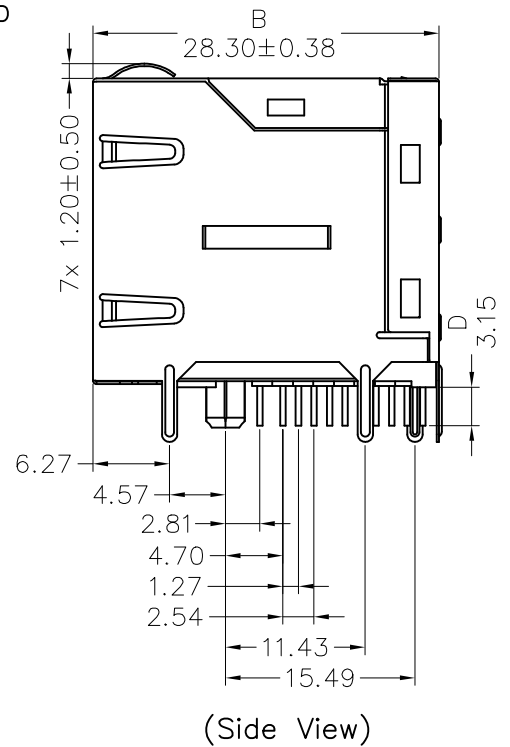
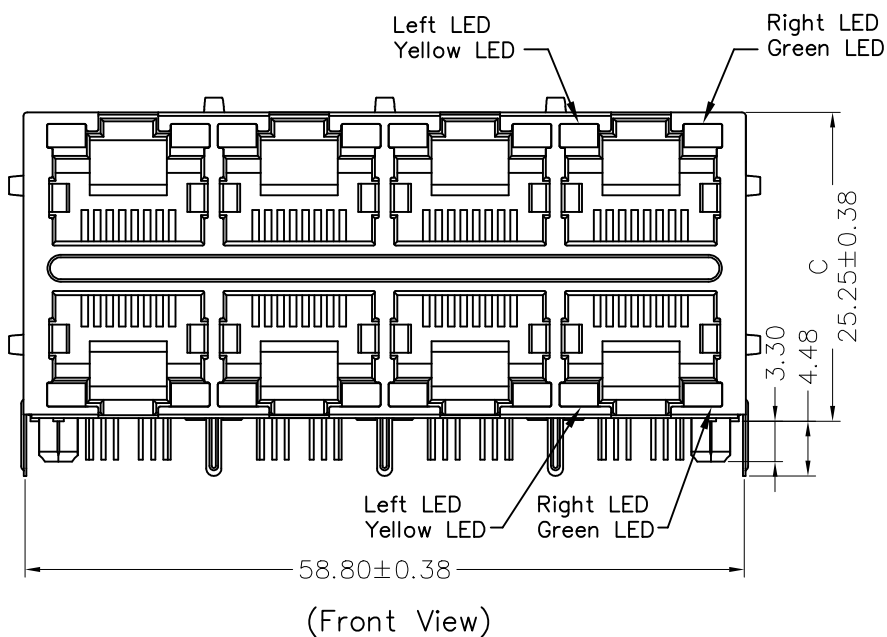
Unless otherwise specified, Tolerance: .xx ±0.25

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Mechanical Dimensions:



Standard LED	Wavelength	Forward V (Min/Max)	Forward A	Type
Yellow	585nm	1.8v/2.8v	20mA	squareness
Green	568nm	1.8v/2.8v	20mA	squareness

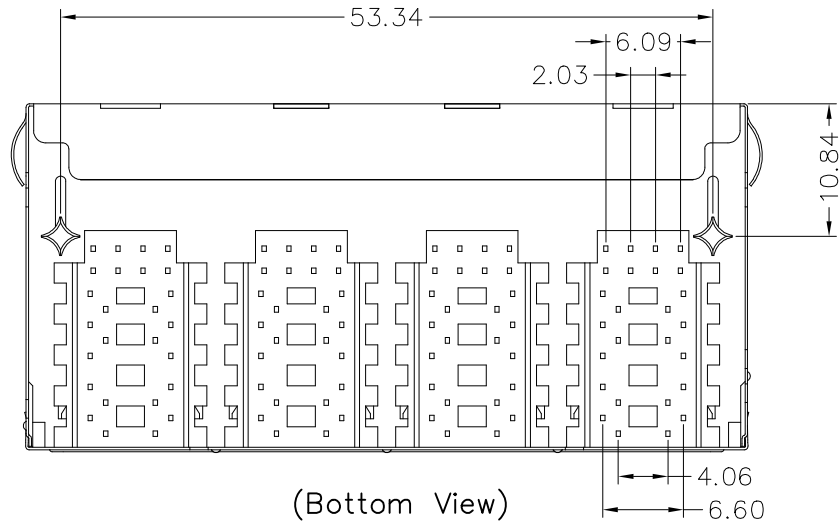
Dimensions in mm

Unless otherwise specified, Tolerance: .xx ±0.25

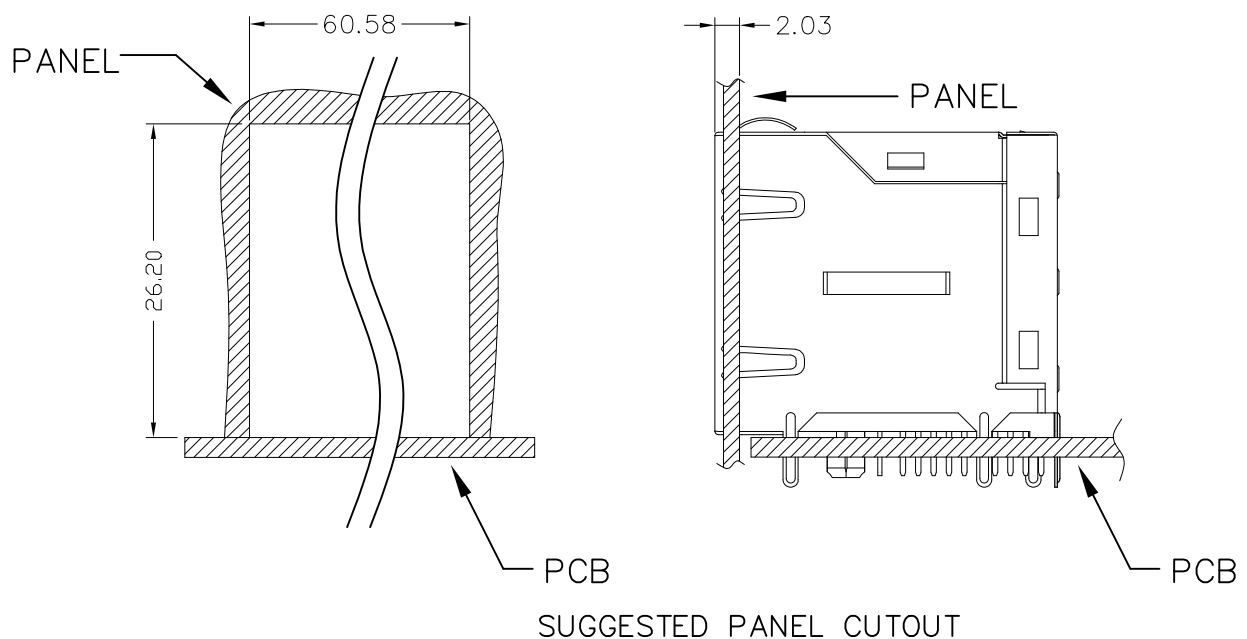
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Suggested Panel Cutout:



Dimensions in mm

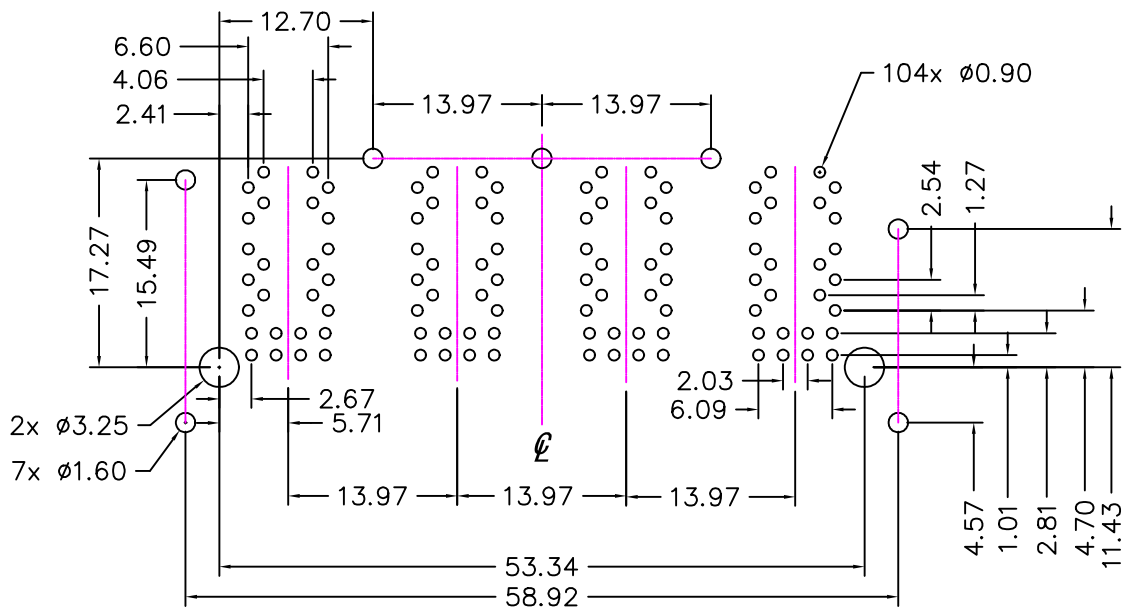
Unless otherwise specified, Tolerance: .xx ±0.25

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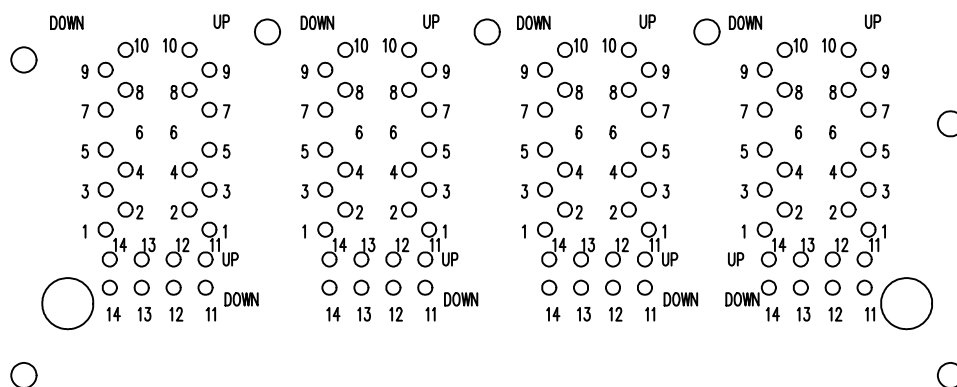
PCB Layout:



Recommended PCB layout (Component Side View)

All dimension tolerance are ± 0.08 unless otherwise specified

Pin Assignments:



Remark: Remove Pin#6

Dimensions in mm

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