

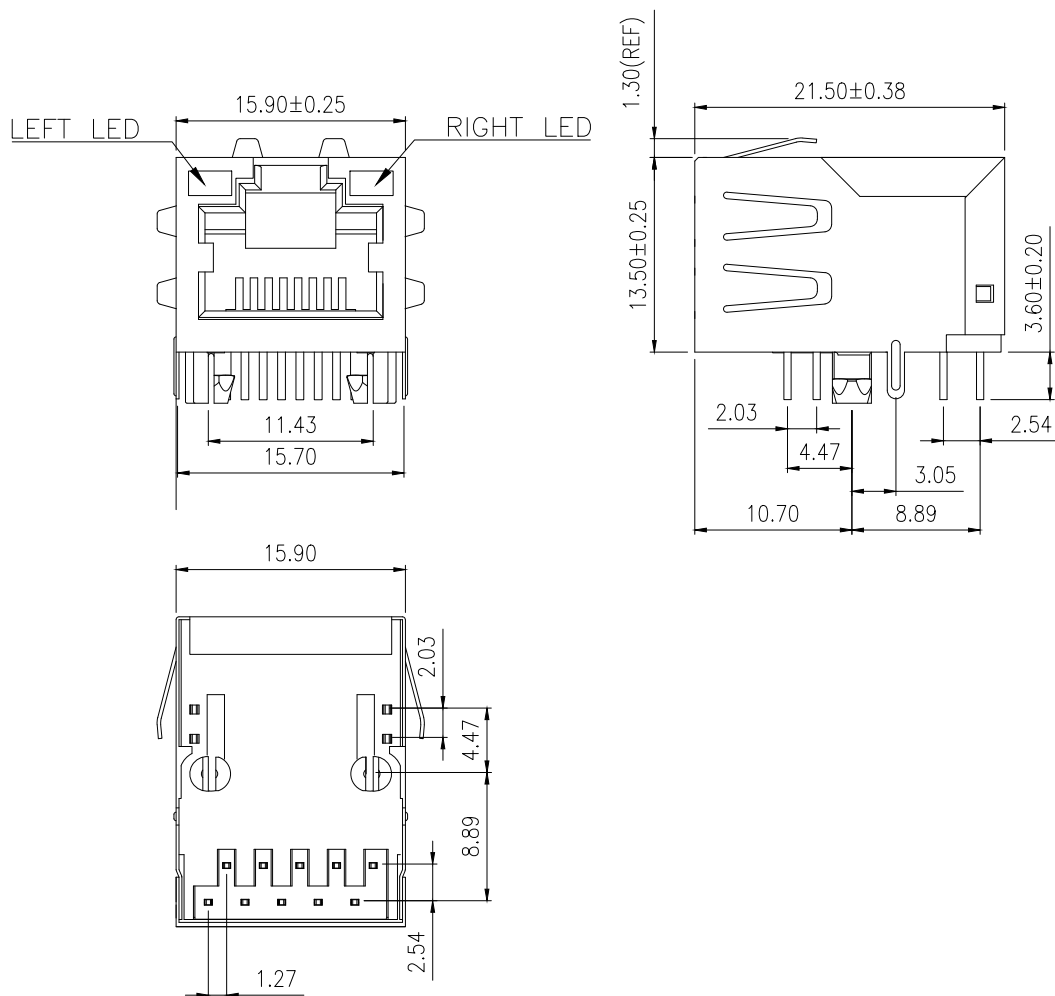
Part Number: AE-RJU101B028H-30

1*1 Port RJ45 10/100/1000Base-T Network Connector

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- RoHS compliant.
- Housing: LCP UL94V-0.
- Shielding: 20μ" Thickness With Brass.
- Contact: Phosphor bronze. With 30μ" gold plating.
- Operating Temperature: -40°C TO +85°C.

Mechanicals:



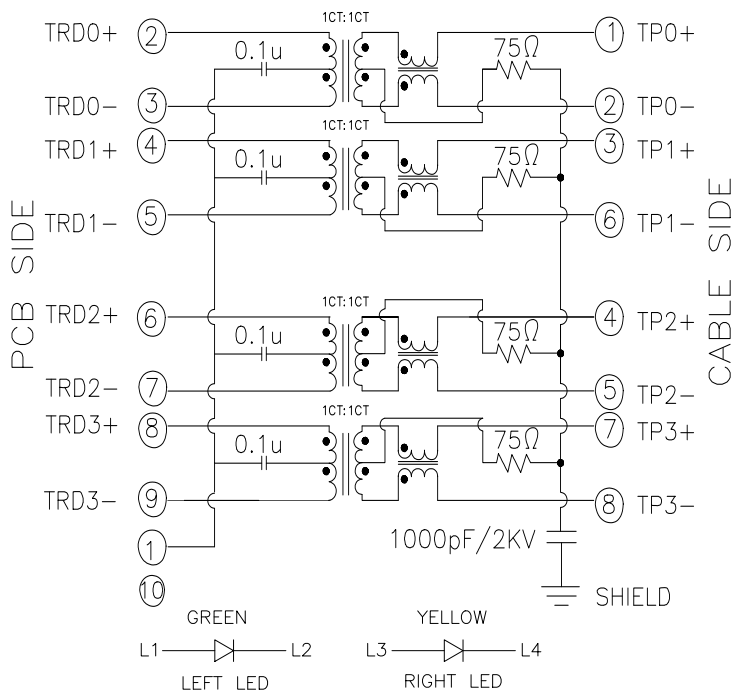
Unless otherwise specified, all dimensions tolerances is ± 0.254 / 0.010 .

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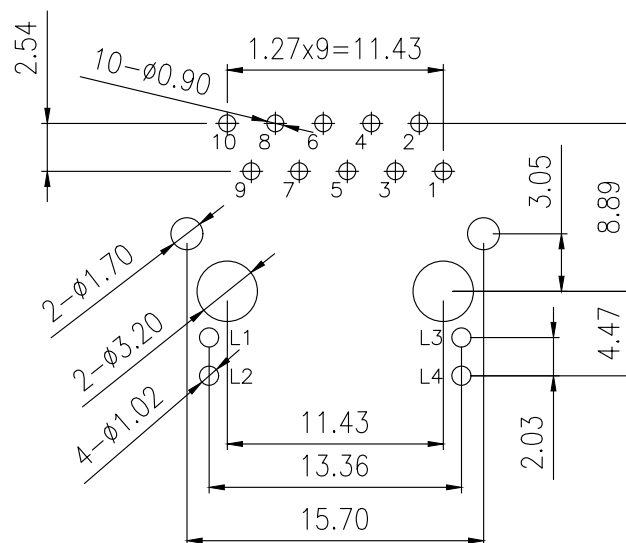
Schematic



Electrical Characteristics

- 1.TR:(100KHz,0.1V);
PINS:(P2-P3):(J1-J2)=1:1±2%
PINS:(P4-P5):(J3-J6)=1:1±2%
PINS:(P6-P7):(J4-J5)=1:1±2%
PINS:(P8-P9):(J7-J8)=1:1±2%
- 2.LX:(100KHz,100mV,8mA, DC Bias)
PINS:(P2,P3),(P4,P5),(P6,P7),(P8,P9)
=350uH MINIMUM
- 3.DCR:
PINS:(J1-J2),(J3-J6),(J4-J5),(J7-J8)
=1.4OHMS MAXIMUM
- 4.HI-POT:
PINS(P2,P4,P6,P8)TO(J1,J3,J4,J7)=2250VDC
FOR 60 SECONDS
- 5.INSERTION LOSS:
-1.0dB MAXIMUM AT 0.3MHz TO 100MHz;
- 6.RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-13dB MINIMUM AT 30MHz TO 60MHz
-10dB MINIMUM AT 60MHz TO 80MHz
- 7.CROSS TALK:
-30dB MINIMUM AT 1MHz TO 100MHz
- 8.COMMON TO COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz

Recommended PCB Layout:



Suggested PCB Layout
All dim. tolerance are ±0.05mm.

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Reliability Test And Condition:

Test Item	Test Condition	Cycles or Hours	Reference
Vibration Test	1. Amplitude: 0.75mm 2. Frequency: 5-500Hz 3. Number of sweep cycles per axis 10 4. Direction: X. Y. Z	Duration: 2 hours each direction	IEC-68-2-6
Drop Test	1. Height: 1m 2. Concrete platform	6 Times	IEC-68-2-32
Thermal Shock Test	1. Low temperature: -40℃ 2. High temperature: +85℃ 3. Soak time: 30 minutes 4. Transition time: less than 20 minutes	5 Cycles	IEC-68-2-14
Solderability Test	Dipped in 245±5 ℃ molten solder	Time: 3~5 seconds	IEC-68-2-20
High Temperature Test	1. Humidity: less than 50% RH 2. Temperature: 85±2 ℃	Duration: 96 hours	IEC-68-2-2
Low Temperature Test	Temperature: -40±3 ℃	Duration: 96 hours	IEC-68-2-1