

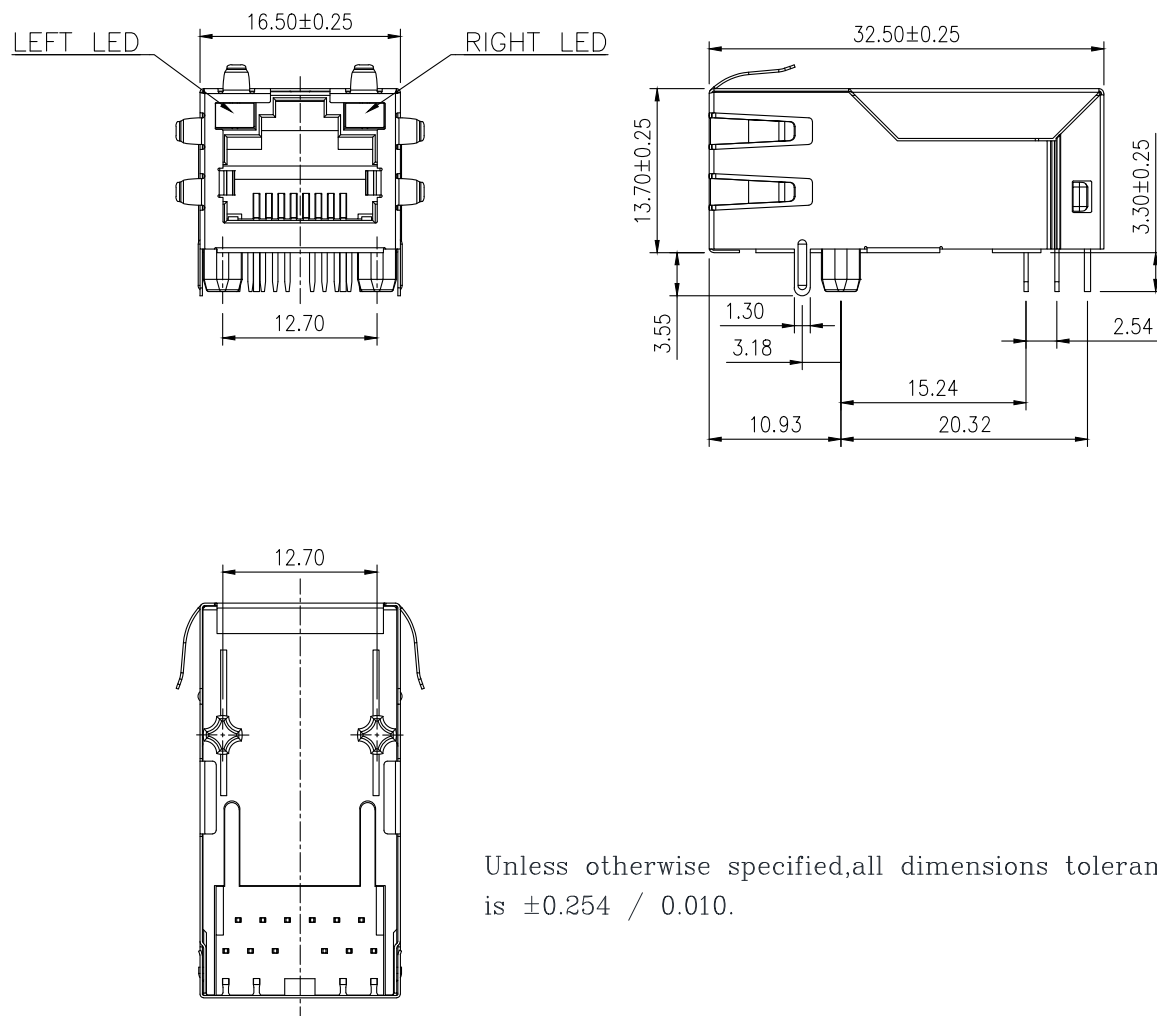
Part Number: AE-RJU101B016H

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

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- RoHS compliant.
- Housing: Thermoplastic UL94V-0.
- Shield: Brass.
- Shield Plating: Nickel.
- Contact: Phosphor bronze. With 50μ" gold plating.
- Operating Temperature: -40℃ TO +85℃.

Mechanicals:



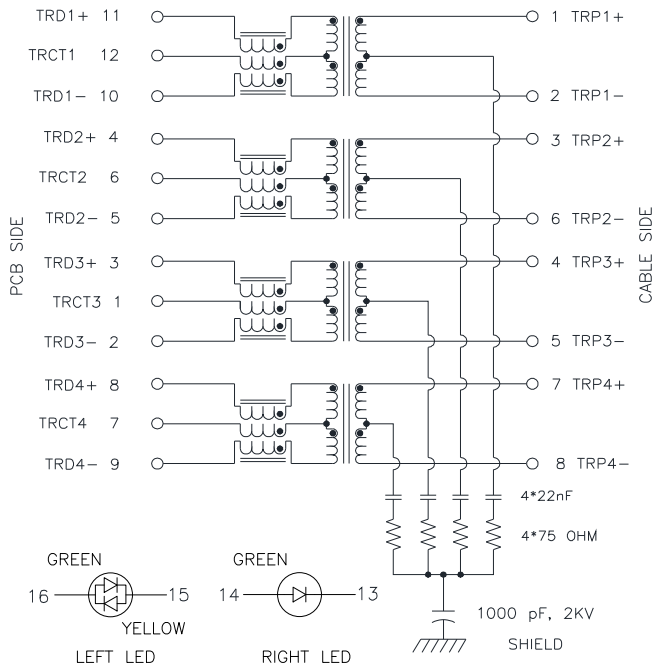
Unless otherwise specified, all dimensions tolerances is ± 0.254 / 0.010 .

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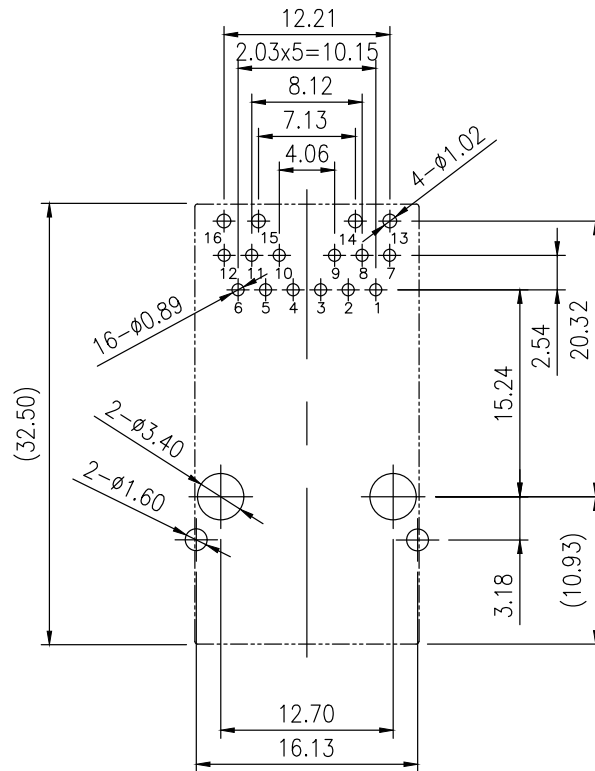
Schematic



Electrical Characteristics:

- 1.TR:(100KHz,0.1V);
PINS:(P11-P10):(J1-J2)=1:1±5%
PINS:(P4-P5):(J3-J6)=1:1±5%
PINS:(P3-P2):(J4-J5)=1:1±5%
PINS:(P8-P9):(J7-J8)=1:1±5%
- 2.LX:(100KHz,100mV,DC 8.0mA)
350uH MINIMUM
- 3.DCR:
1.2OHMS MAXIMUM
- 4.HI-POT:
2250VDC FOR 60 SECONDS
- 5.INSERTION LOSS:
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- 6.RETURN LOSS:
-16dB MINIMUM AT 1MHz TO 40MHz;
-12dB MINIMUM AT 40MHz TO 60MHz;
-10dB MINIMUM AT 60MHz TO 80MHz;
-8dB MINIMUM AT 80MHz TO 100MHz;
- 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