

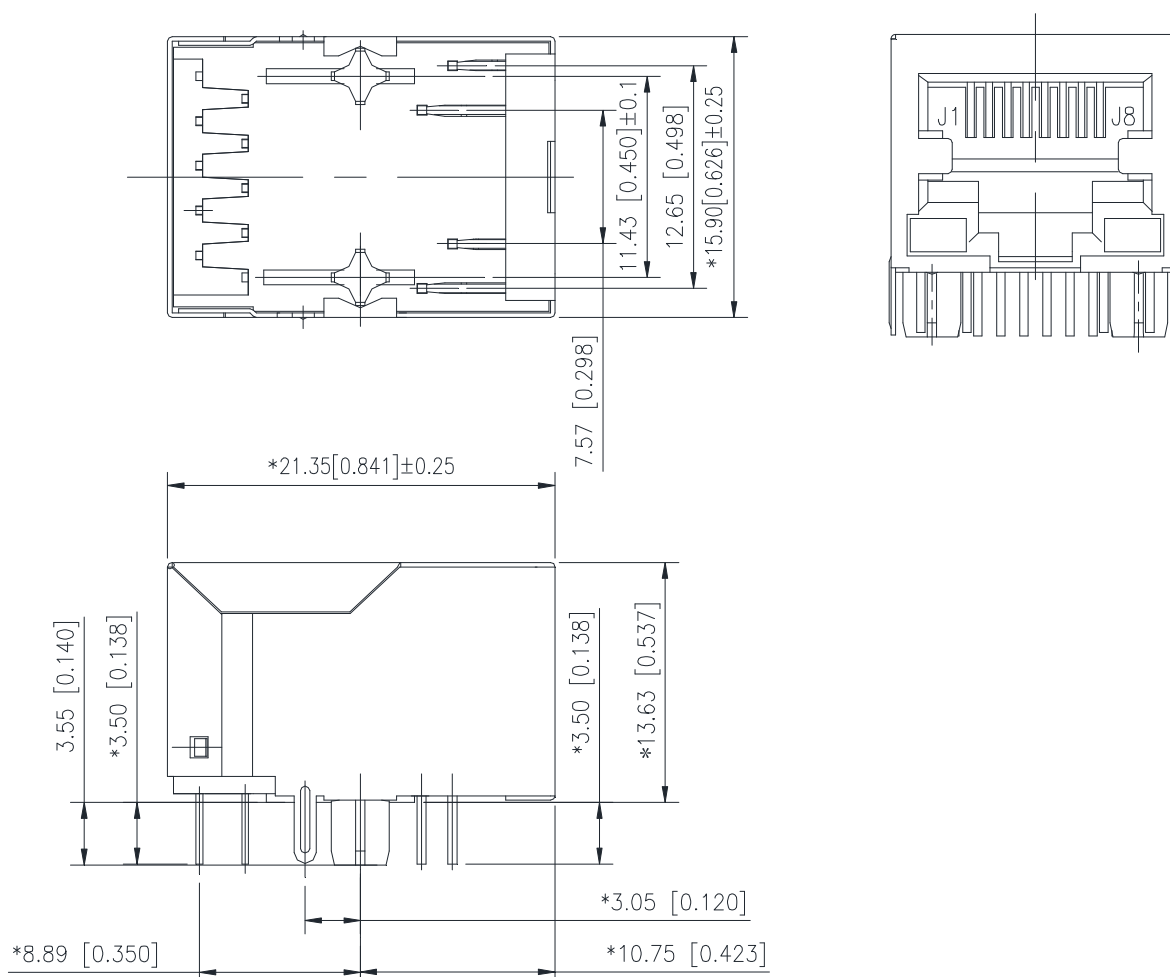
Part Number: AE-RJD102A012HC-15

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

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- RoHS compliant.
- Housing: Thermoplastic Black UL94V-0.
- Shielding: Thickness With Brass.
- Contact: Phosphor bronze. With 15μ" gold plating.
- Operating Temperature: -40°C TO +85°C.

Mechanicals:



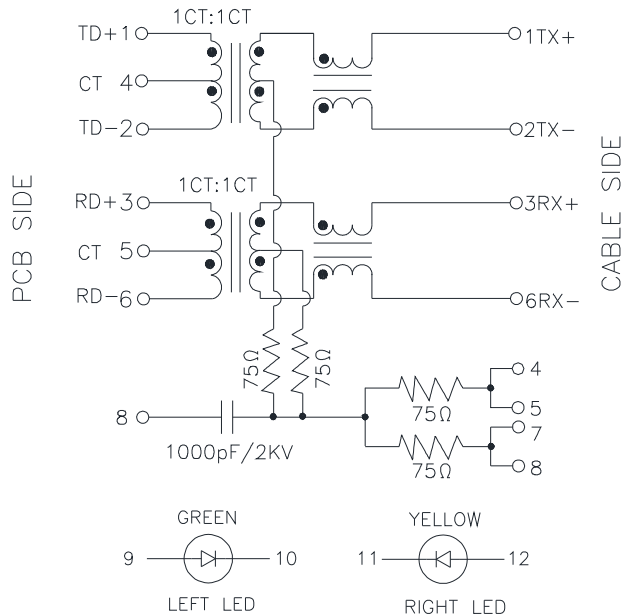
Unless otherwise specified, all dimensions tolerances is $\pm 0.254 / 0.010$.

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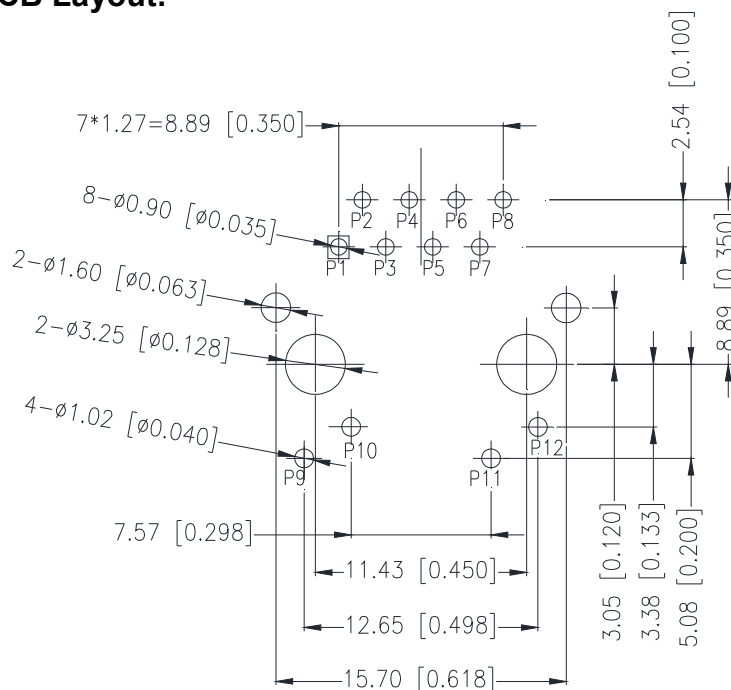
Schematic



Electrical Characteristics:

- 1.TR:(100KHz,0.1V);
PINS:(P1-P2):(J1-J2)=1:1±5%
PINS:(P3-P6):(J3-J6)=1:1±5%
- 2.LX:(100KHz,100mV,8mA, DC Bias)
PINS: (P1,P2),(P3,P6)=350uH MINIMUM
- 3.INSERTION LOSS:
-1.0dB MAXIMUM AT 0.3MHz TO 100MHz;
- 4.RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-15dB MINIMUM AT 30MHz TO 60MHz
-12dB MINIMUM AT 60MHz TO 80MHz
- 5.CROSS TALK:
-30dB MINIMUM AT 1MHz TO 100MHz
- 6.COMMON TO COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz
- 7.HI-POT:
PINS(P4,P5)TO(J1,J3,J4,J7)=2250VDC;

Recommended PCB Layout:



UNIT: mm / inch
Tolerances: ±0.10 / 0.004

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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