

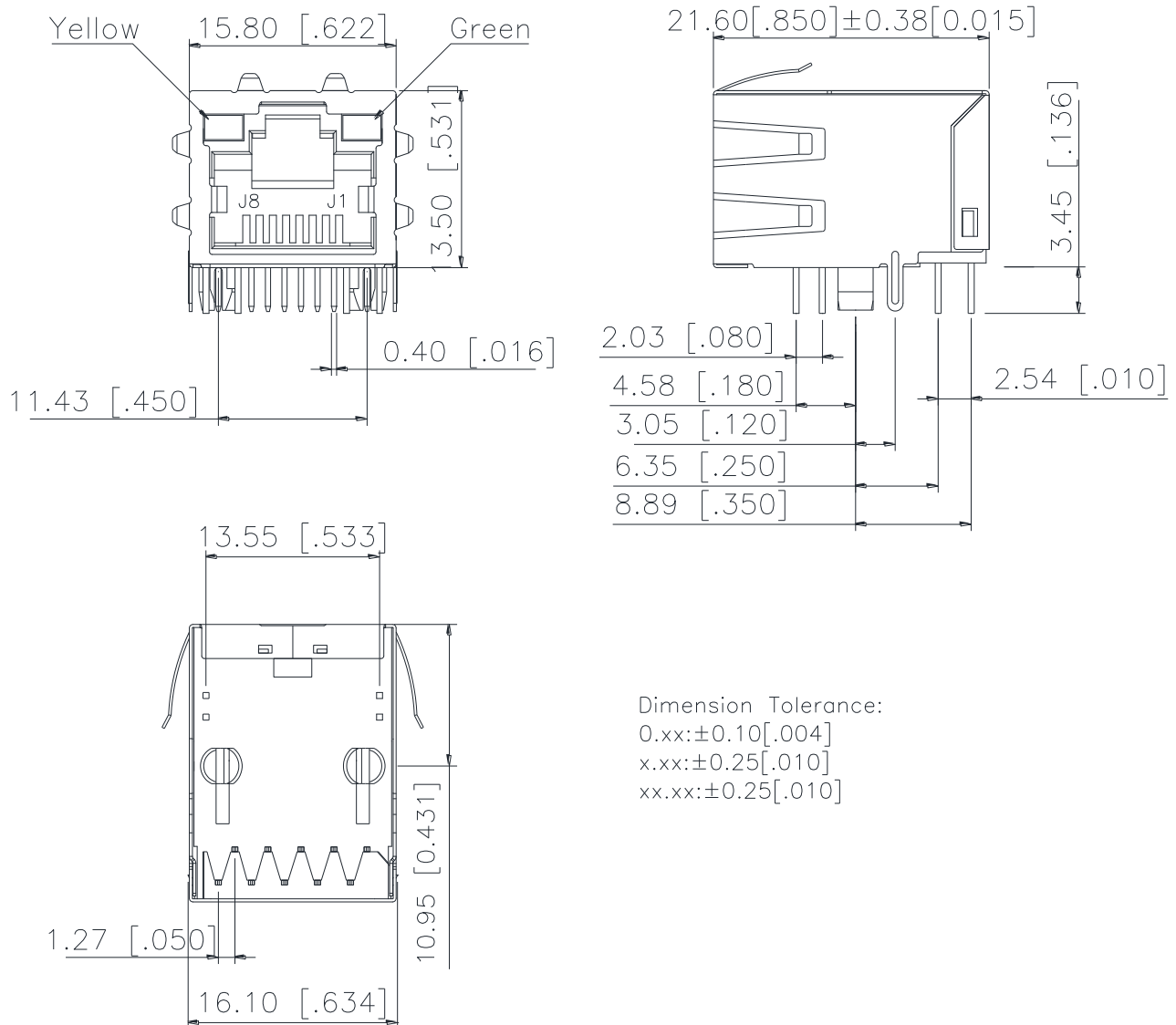
Part Number: AE-RJU101B002H

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

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- RoHS compliant.
- Housing: High temperature plastic UL94V-0, Black.
- Shielding: Stainless steel.
- Contact: Copper alloy. With 30μ" gold plating.
- Operating Temperature: -40°C TO +85°C.

Mechanicals:



Address: Room 1720, Block A, Xinian Centre, Shennan Road, Futian District, Shenzhen, Guangdong, P.R. China

Tel : +86 (755) 86538552 Fax : +86 (755) 26653184 Post Code : 518057

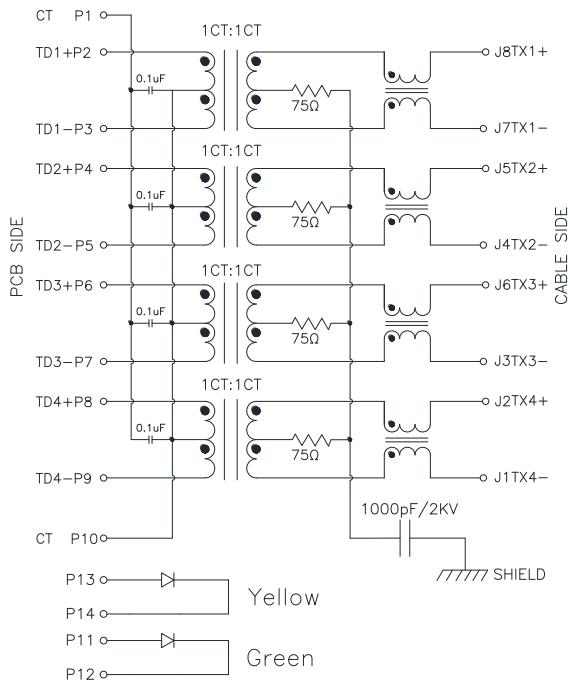
Http: www.appselectronics.com E-mail: sales@appselectronics.com

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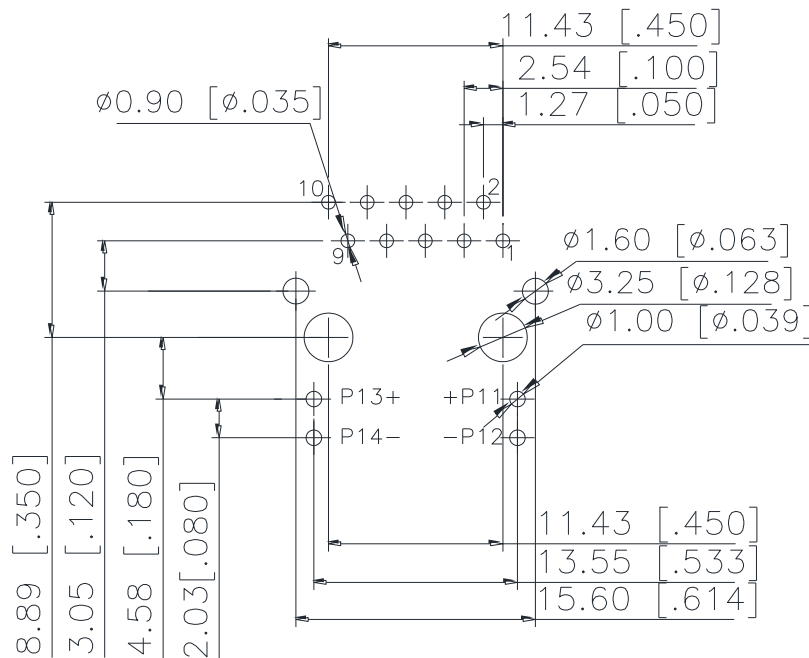
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Recommended PCB Layout:



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



RECOMMENDED P.C.B LAYOUT
TOP VIEW (COMPONENT SIDE)

Dimensions Tolerance:
All PCB LAYOUT Tolerances: $\pm 0.05[.002]$

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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 °C molten solder	Time: 3~5 seconds	IEC-68-2-20
High Temperature Test	1. Humidity: less than 50% RH 2. Temperature: 85±2 °C	Duration: 96 hours	IEC-68-2-2
Low Temperature Test	Temperature: -40±3 °C	Duration: 96 hours	IEC-68-2-1