

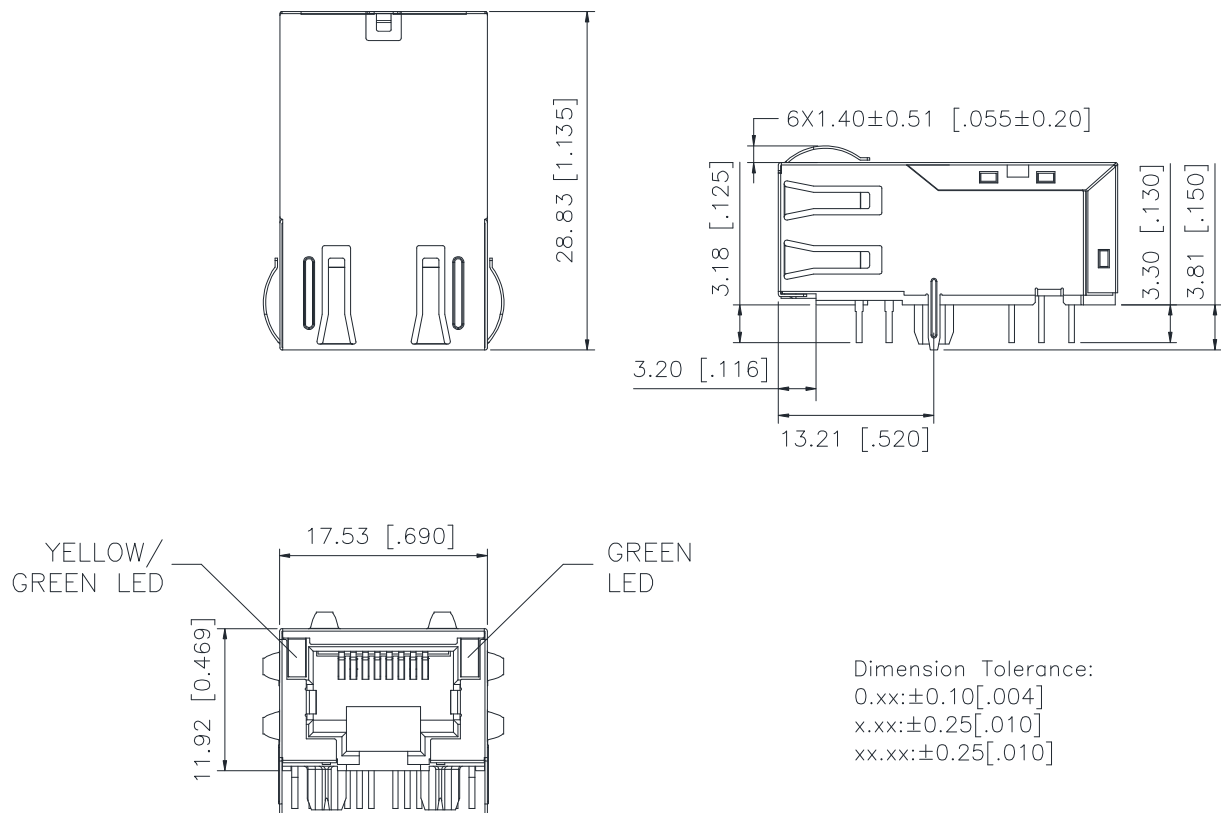
Part Number: AE-RJD101E004-50

1*1 Port RJ45 2.5G Network Connector

Page: 1/3

- RoHS compliant.
- Housing: PA46 Black UL94V-0.
- Shielding: 0.2mm Thickness With Brass.
- Contact: Phosphor bronze. With 50μ" gold plating.
- Operating Temperature: 0°C TO +70°C.

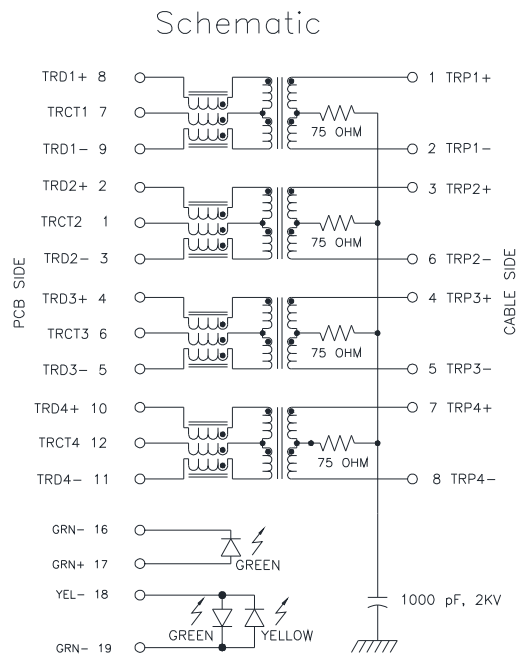
Mechanicals:



Part Number: AE-RJD101E004-50

1*1 Port RJ45 2.5G Network Connector

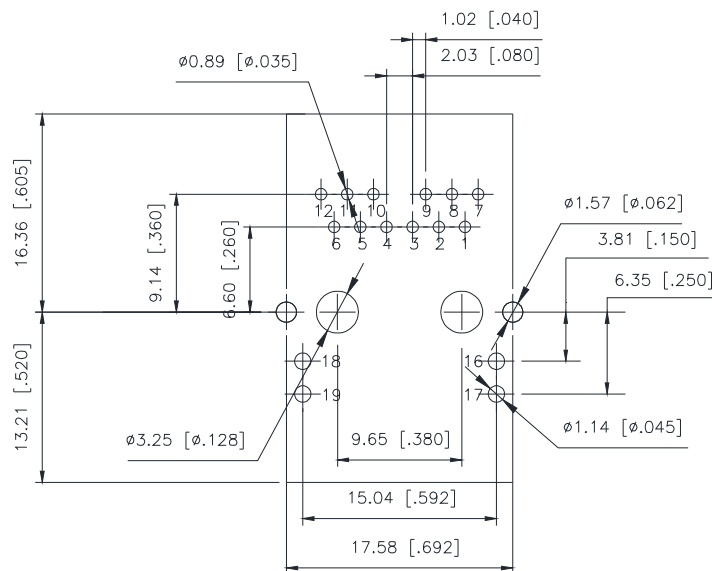
Page: 2/3



Electrical Characteristics:

- 1.TR:(100KHz,0.1V);
PINS:(P8-P9):(J1-J2)=1:1±3%
PINS:(P2-P3):(J3-J6)=1:1±3%
PINS:(P4-P5):(J4-J5)=1:1±3%
PINS:(P10-P11):(J7-J8)=1:1±3%
- 2.LX:(100KHz,100mV)
PINS: (J1-J2),(J3-J6),(J4-J5),(J7-J8)=180uH MINIMUM
- 3.INSERTION LOSS:
-0.5dB MAXIMUM AT 1MHz TO 50MHz;
-1.0dB MAXIMUM AT 50MHz TO 125MHz;
- 5.RETURN LOSS:
-20dB MINIMUM AT 1MHz TO 40MHz;
-20+15*LOG(f/40)dB MINIMUM AT 40MHz TO 200MHz;
- 6.CROSS TALK:
-40dB MINIMUM AT 1MHz TO 25MHz;
-30dB MINIMUM AT 25MHz TO 125MHz;
- 7.COMMON MODE REJECTION RATIO:
-30dB MINIMUM AT 1MHz TO 200MHz;
- 8.COMMON TO DIFFERENTIAL COMMON MODE REJECTION:
-45+f/35dB MINIMUM AT 1MHz TO 125MHz;

Recommended PCB Layout:



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

Dimensions Tolerance:

All PCB LAYOUT Tolerances:±0.08[.003]

Address: Room 505, 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

Part Number: AE-RJD101E004-50

1*1 Port RJ45 2.5G Network Connector

Page: 3/3

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