

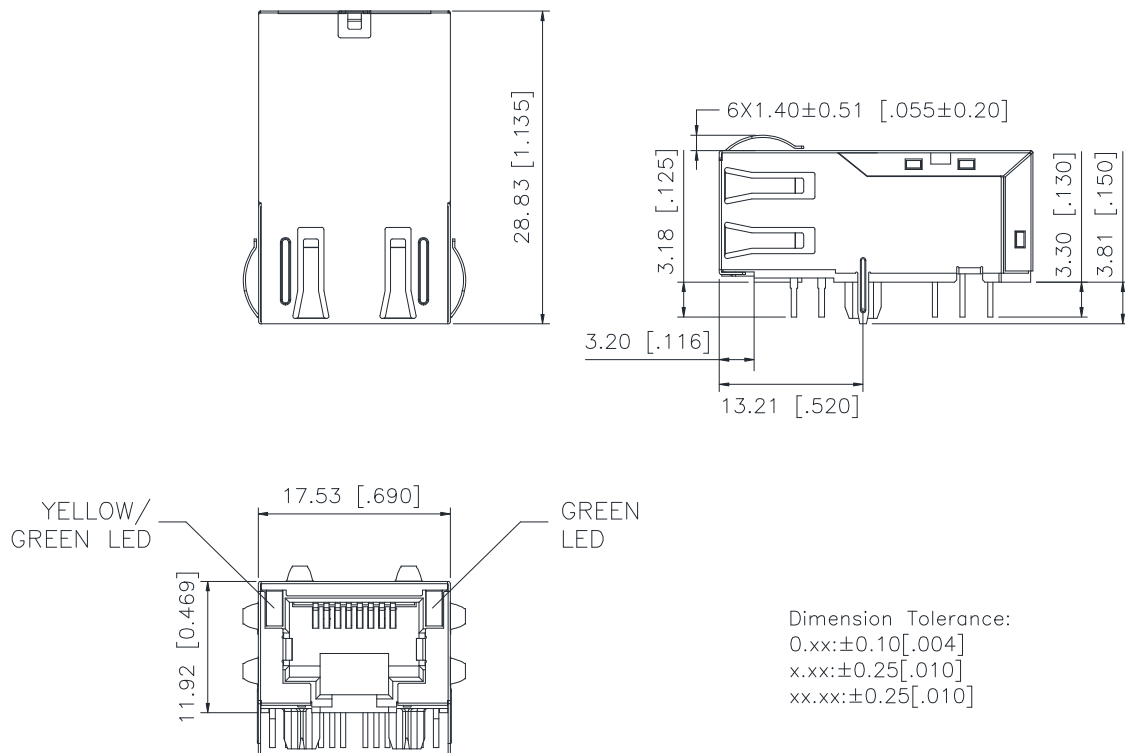
Part Number: AE-RJD101G005

1*1 Port RJ45 10G Network Connector

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- 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.
- Dielectric Withstanding Voltage Between Shield And Terminal: 2250 VDC, 1MIN.

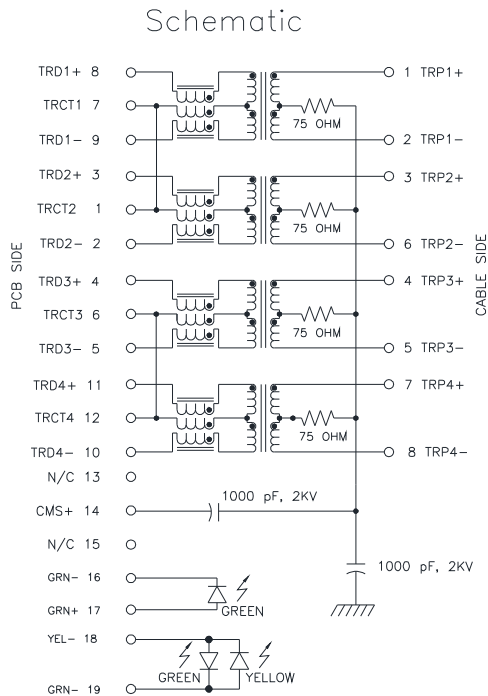
Mechanicals:



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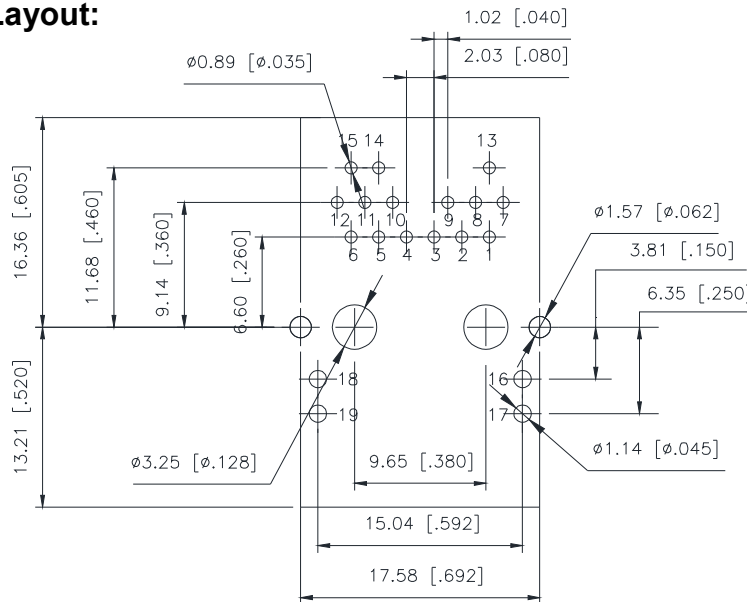
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Electrical Characteristics:

- 1.TR:(100KHz,0.1V);
PINS:(P8-P9):(J1-J2)=1:1±3%
PINS:(P3-P2):(J3-J6)=1:1±3%
PINS:(P4-P5):(J4-J5)=1:1±3%
PINS:(P11-P10):(J7-J8)=1:1±3%
- 2.LX:(100KHz,100mV)
PINS: (J1-J2),(J3-J6),(J4-J5),(J7-J8)=150uH MINIMUM
- 3.INSERTION LOSS(DATA CHANNELS):
-3.0dB MAXIMUM AT 100KHz;
-2.0dB MAXIMUM AT 1MHz TO 400MHz;
- 4.INSERTION LOSS(CM SENSE CHANNELS):
-5.0dB MAXIMUM AT 3MHz TO 500MHz;
- 5.RETURN LOSS:
-22dB MINIMUM AT 1MHz TO 100MHz;
-22dB+18.27*LOG(f/100) MINIMUM AT 100MHz TO 500MHz;
- 6.CROSS TALK:
-28dB MINIMUM AT 1MHz TO 100MHz;
-19dB MINIMUM AT 100MHz TO 500MHz;
- 7.COMMON MODE REJECTION RATIO:
-30dB MINIMUM AT 1MHz TO 40MHz;
-28dB MINIMUM AT 40MHz TO 100MHz;
-26dB MINIMUM AT 100MHz TO 500MHz;
- 8.COMMON TO DIFFERENTIAL COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 250MHz;
-22dB MINIMUM AT 250MHz TO 500MHz;

Recommended PCB Layout:


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

Dimensions Tolerance:

All PCB LAYOUT Tolerances:±0.08[.003]

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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