

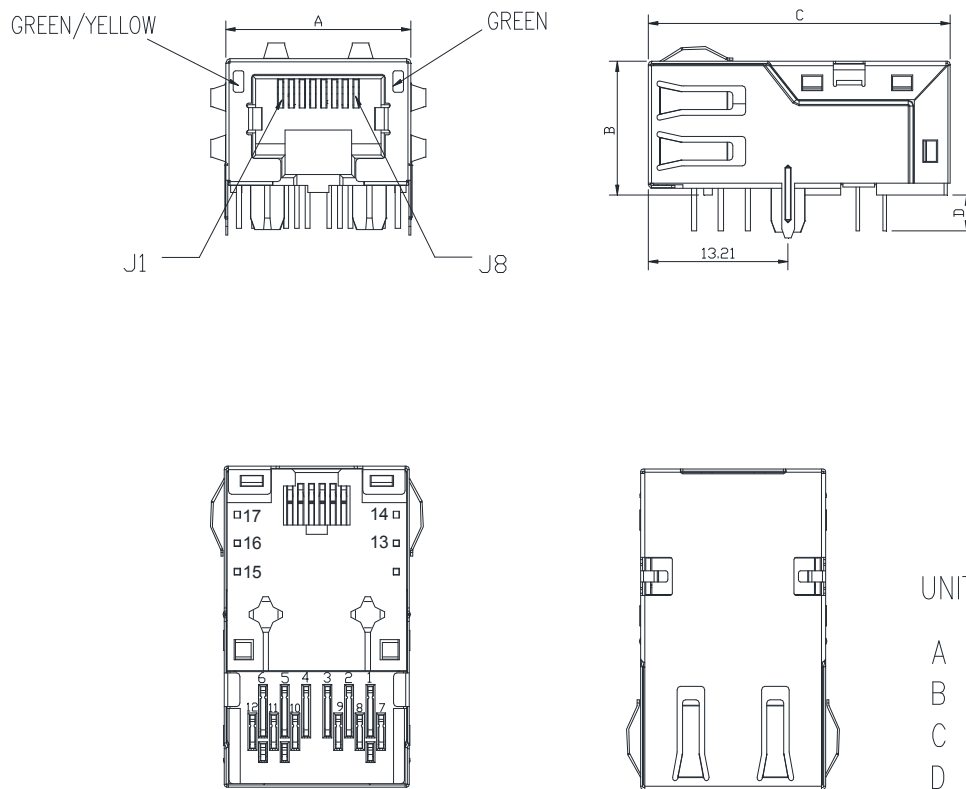
Part Number: AE-RJD101G015-06

1*1 Port RJ45 10G Network Connector

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- RoHS compliant.
- Housing: LCP Black UL94V-0.
- Shielding: 0.2mm Thickness With Brass.
- Contact: Phosphor bronze. With 6μ" gold plating.
- Operating Temperature: 0°C TO +70°C.
- Dielectric Withstanding Voltage Between Shield And Terminal: 2250 VDC, 1MIN.

Mechanicals:



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

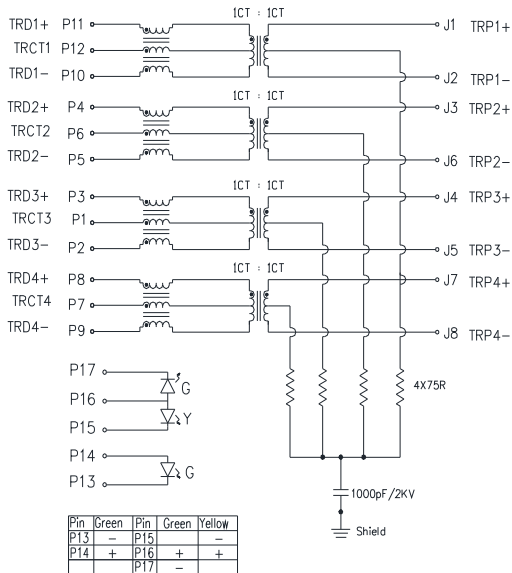
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Circuit Schematic

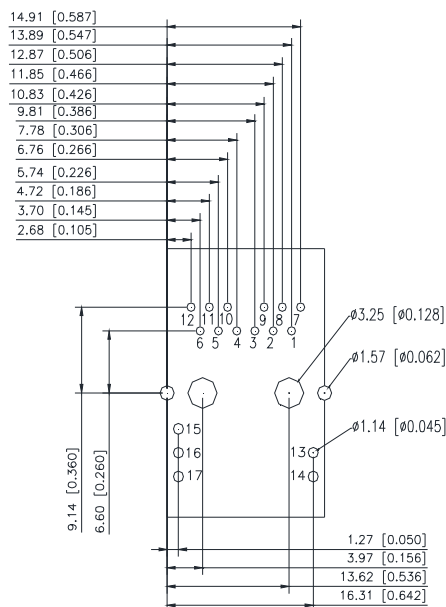
ELECTRICAL CHARACTERISTICS @ 25°C



PARAMETER	SPECIFICATIONS						
OPERATING TEMP	-40°C TO +85°C						
URNS RATIO	1.00 ± 2%						
POLARIT	PER SCHEMATIC						
INSERTION LOSS (DATA CHANNELS)	100 KHz			1-400 MHz			
	3.0 dB MAX			-2.0 dB MAX (-1.4dB TYP)			
RETURE LOSS (Z OUT=100 OHM ±1%)	1-40 MHz	100 MHz	200 MHz	300 MHz	400 MHz	500 MHz	
	-22 dB MIN	-20dBMIN	-18dBMIN	-15dBMIN	-10dBMIN	-8dBMIN	
INDUCTANCE (DCL)	120 uH MIN @ 100 KHz, 100 mV WITH 0 mA DC BIAS						
CROSSTALK,ADJACENT CHANNELS	1-100 MHz			100-500 MHz			
	-30 dB MIN			-20 dB MIN			
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1-250 MHz			250-500 MHz			
	-30 dB MIN			-22 dB MIN			
HIPOT	2250VDC MIN @ 60 SECONDS						

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

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