

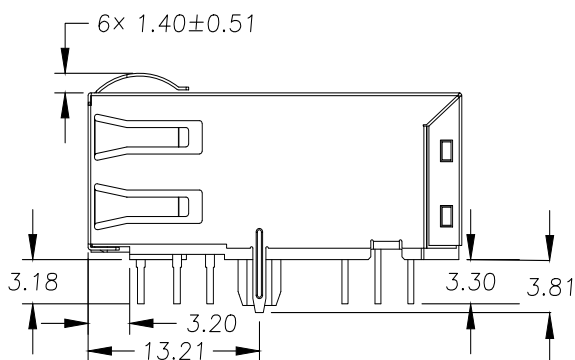
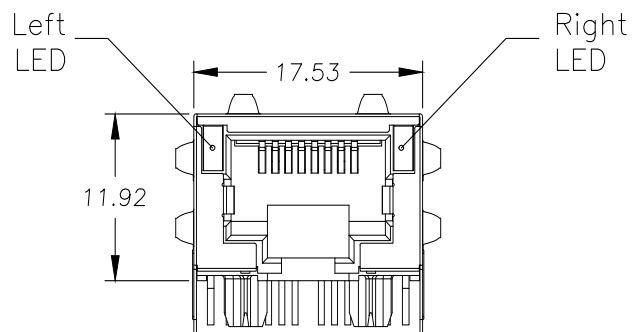
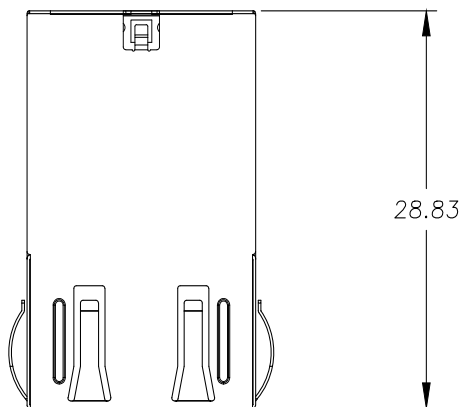
Part Number: AE-RJD101G016

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.

Mechanicals:



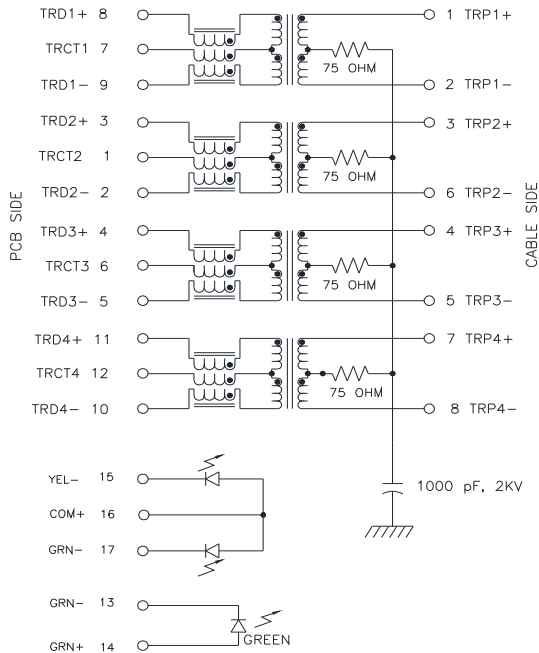
Dimension Tolerance:
 0.xx:±0.10[.004]
 x.xx:±0.25[.010]
 xx.xx:±0.25[.010]

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Schematic

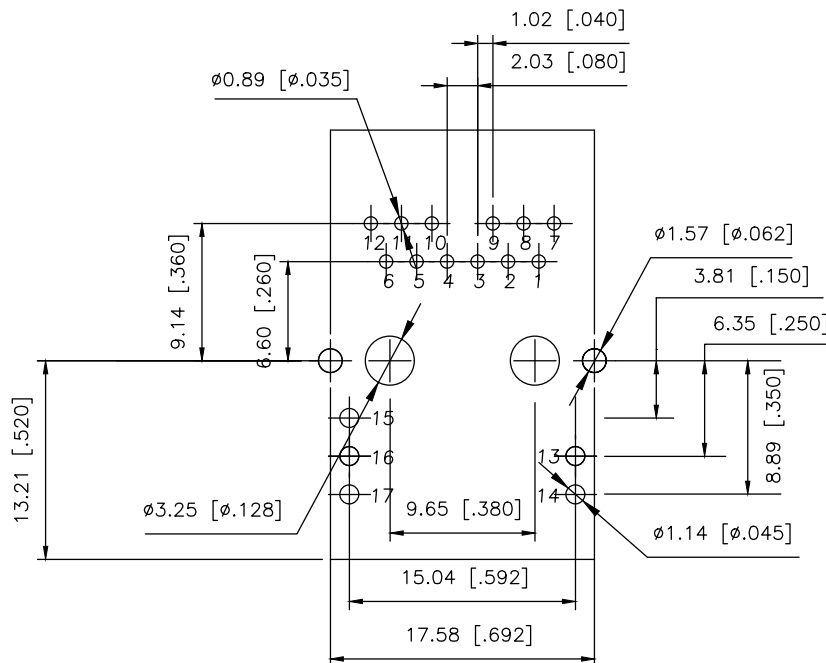


ELECTRICAL CHARACTERISTICS AT +25 °C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS			
OPERATING TEMPERATURE	0 °C TO +70 °C			
URNS RATIO	1.00 ± 2%			
POLARITY	PER SCHEMATIC			
INSERTION LOSS (SDD21&SDD12)	1-65MHz	65-125MHz	125-400MHz	400-500MHz
	-0.8dB MAX	-1.0dB MAX	-2.5dB MAX	-3.5dB MAX
PHY-SIDE RETURN LOSS (SDD11-Zref=100 OHMS ± 1%) (SDD22-Zref=100 OHMS ± 1%)	1-40MHz		40-400MHz	300-500MHz
	-18dB MIN		-18±10LOG(f/40)dB MIN	-8±30LOG(f/400)dB MIN
INDUCTANCE (OCL)	120 uH MIN @ 100KHz, 100mV			
CROSSTALK, ADJACENT CHANNELS (SDD21-ADJ.)	1-100MHz		100-500MHz	
	-30dB MIN		-20dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	1-100MHz	100-300MHz		300-500MHz
	-30dB MIN	-22dB MIN		-17dB MIN
COMM. TO DIFF REJECTION RATIO (SDC12)	1-100MHz	100-300MHz		300-500MHz
	-32dB MIN	-27dB MIN		-22dB MIN
PCB SIDE-CABLE SIDE ISOLATION	2250 VDC FOR 60 SECONDS			

NOTE: f IS FREQUENCY IN MHZ.

Recommended PCB Layout:



RECOMMENDED P.C.B LAYOUT
TOP VIEW (COMPONENT SIDE)
All PCB LAYOUT Tolerances: ±0.05[.002]

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

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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