

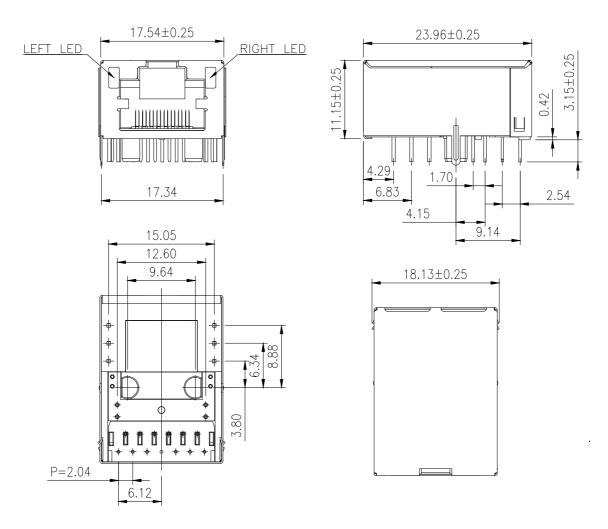
Part Number: AE-RJU102G002

1*1 Port RJ45 10G Network Connector

RoHS compliant.

- Housing: PA66 Black UL94V-0.
- Shielding: 0.2mm Thickness With Brass.
- Contact: Phosphor bronze. With 50μ " gold plating.
- Operating Temperature: 0°CTO +70°C.

Mechanicals:



Unless otherwise specified,all dimensions tolerances is ± 0.254 / 0.010.

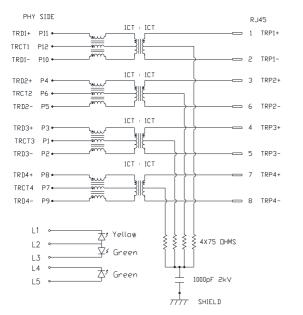
Page: 1/3



Part Number: AE-RJU102G002

1*1 Port RJ45 10G Network Connector

Page: 2/3



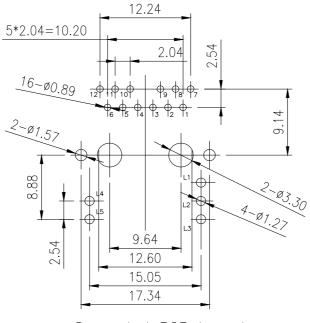
Schematic

PARAMETER	SPECIFICATIONS							
TURNS RATIO	1.00 ± 2%							
POLARITY	PER SCHEMATIC							
INSERTION LOSS	1-400MHz		400-500MHz					
(DATA CHANNELS)	-2.5 dB MAX		-3.5 dB MAX					
RETURN LOSS	1-40 MHz	40 N	∕Hz-4	00 MHz	400) MHz-	500	MHz
(Z OUT=100 OHM ±1%)	-18 dB MIN-18+10L0G(f/40)dB-8+30L0G				(f/40	00)dB		
INDUCTANCE (OCL)	120 uH MIN @ 100 KHz, 100 mV							
CROSSTALK, ADJACENT	1-100 MHz			100-500 MHz				
CHANNELS	-30 dB MIN			-50 AB MIN				
COMMON MODE	1-100 MHz		410	4100-300 MH		300-500 MH		MHz
REJECTION RATIO	-30 dB MIN		-27	-22 dB MIN		-17 dB MIN		MIN
COMMON TO DIFFERENTIAL	1-300 MHz				300-500 MHz			
MODE REJECTION (CDMR)	-27 dB MIN			-25 dB MIN				
HIPOT-OUTPUT ISOLATION	2250 VDC MIN @ 60 SECENDS							
NOTE: (IS EREQUENCY IN MU-								

Electrical Characteristics

NOTE: f IS FREQUENCY IN MHz.

Recommended PCB Layout:



Suggested PCB Layout All dim. tolerance are $\pm 0.05 \text{mm}.$



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Page: 3/3

Reliability Test And Condition:

Test Item	Test Condition	Cycles or Hours	Reference
Vibration Test	/ibration Test1. Amplitude: 0.75mm2. Frequency: 5-500Hz3. Number of sweep cycles per axis 104. Direction: X. Y. Z		IEC-68-2-6
Drop Test	1. Height: 1m 2. Concrete platform	6 Times	IEC-68-2-32
Thermal Shock Test	 Low temperature: -40°C High temperature: +85°C Soak time: 30 minutes Transition time: less than 20 minutes 	5 Cycles	IEC-68-2-14
Solderability Test	Dipped in 245±5 $^\circ\!\!\mathbb{C}$ 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