

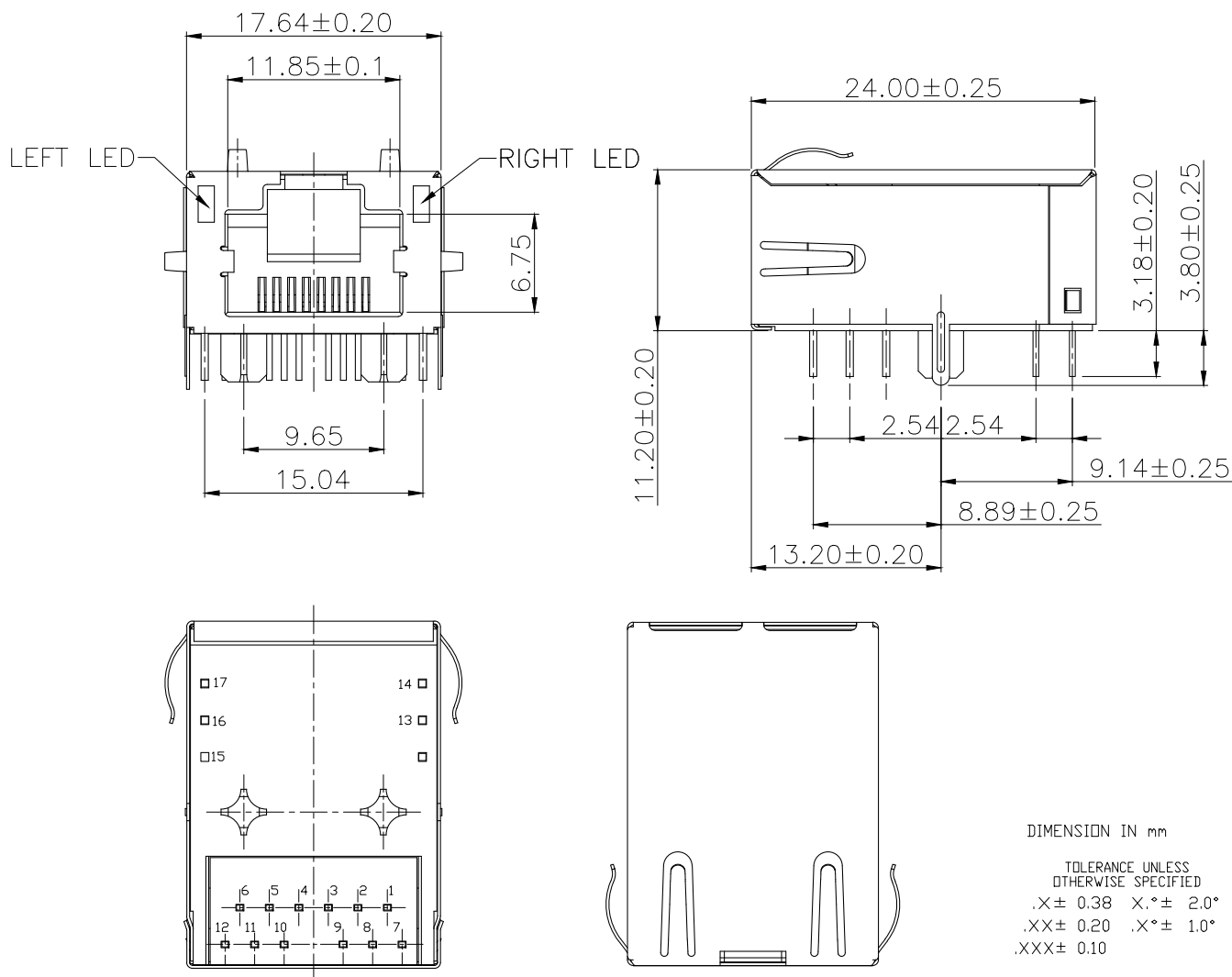
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1*1 Port RJ45 10/100Base-T Network Connector

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- RoHS compliant.
- Housing: PA46 Black UL94V-0.
- Shielding: Thickness With Brass.
- Contact: Phosphor bronze. With 6μ" gold plating.
- Operating Temperature: 0°C TO +70°C.

Mechanicals:



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

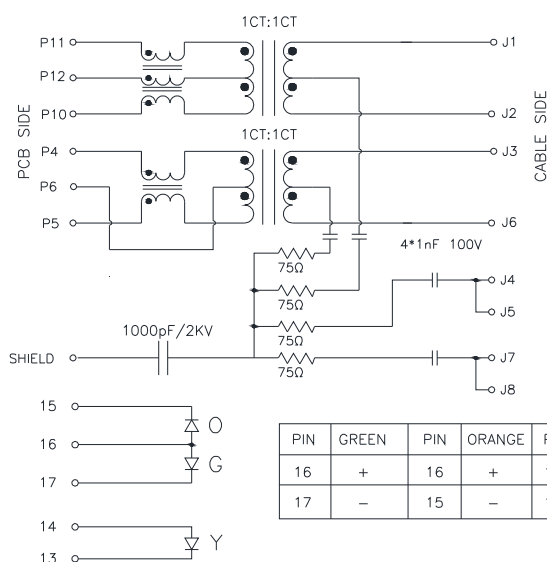
Http: www.appselectronics.com E-mail: sales@appselectronics.com

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Schematic

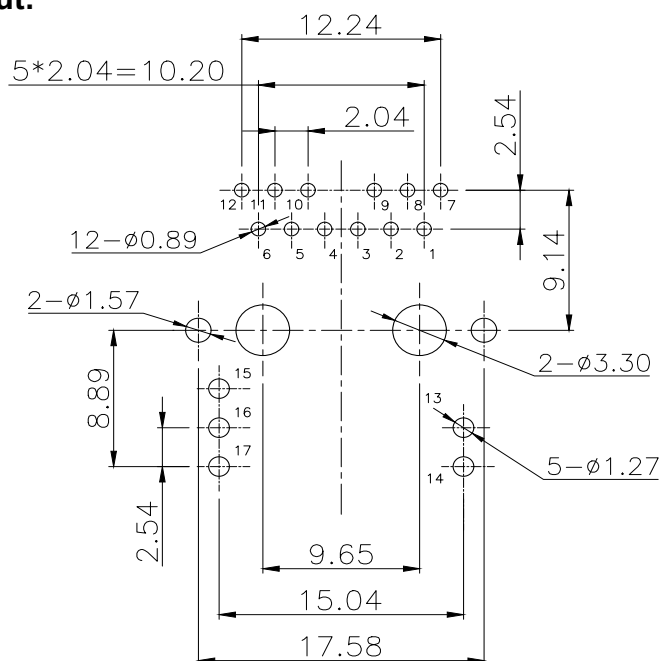


Electrical Characteristics:

1. TR: (100KHz, 0.1V);
PINS: (P11-P10): (J1-J2) = 1:1 ± 3%
PINS: (P4-P5): (J3-J6) = 1:1 ± 3%
2. LX: (100KHz, 100mV, 8mA, DC Bias)
PINS: (P11, P10), (P4, P5) = 350uH MINIMUM
3. INSERTION LOSS:
-1.0dB MAXIMUM AT 0.3MHz TO 100MHz;
4. RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-15dB MINIMUM AT 30MHz TO 60MHz
-12dB MINIMUM AT 60MHz TO 80MHz
5. CROSS TALK:
-30dB MINIMUM AT 1MHz TO 100MHz
6. COMMON TO COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz

PIN	GREEN	PIN	ORANGE	PIN	YELLOW
16	+	16	+	14	+
17	-	15	-	13	-

Recommended PCB Layout:



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
ALL DIMENSION TOLERANCE ARE $\pm 0.05\text{mm}$

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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