



2X1 Dual Port RJ45 Connector

AR21-4237I

- 10/100 Base-T for Ethernet Applications
- Industrial Operating Temp: 40°C to +85°C
- Transmit open circuit inductance (OCL): 350uH (MIN) @ 100KHz, 0.1Vrms with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F



Electrical Specifications @ 25°C

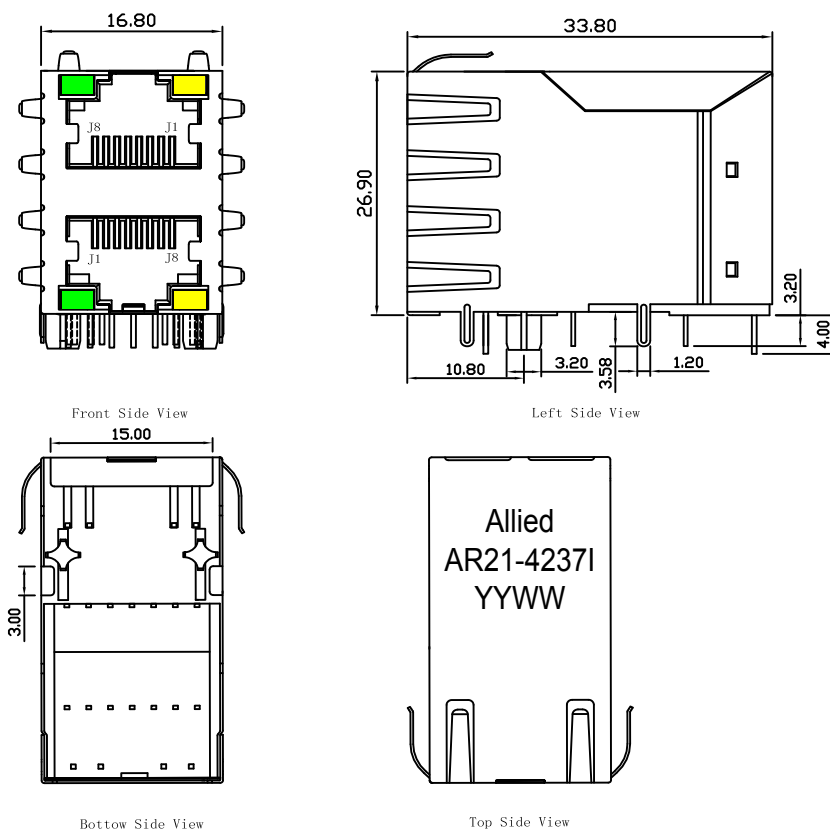
OCL(uH Min) @ 100kHz, 0.1V With 8mA DC Bias	Turns Ratio	DC Resistance (J1~J2):(J3~J6)	Cross Talk (dB Min) 1-100MHz
350	1:1 ±3%	-1.2 Ohms Max	-30

Electrical Specifications @ 25°C

Insertion Loss (dB Max)	Return Loss (dB Min) @ Load 100 Ohm			Common Mode Rejection (dB Min)	Hipot
0.3-100 MHz	1-30MHz	30-60MHz	60-80MHz	1-100 MHz	Vrms Min
-1.0	-20	-15	-10	-30	1500

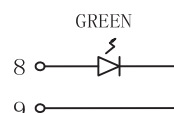
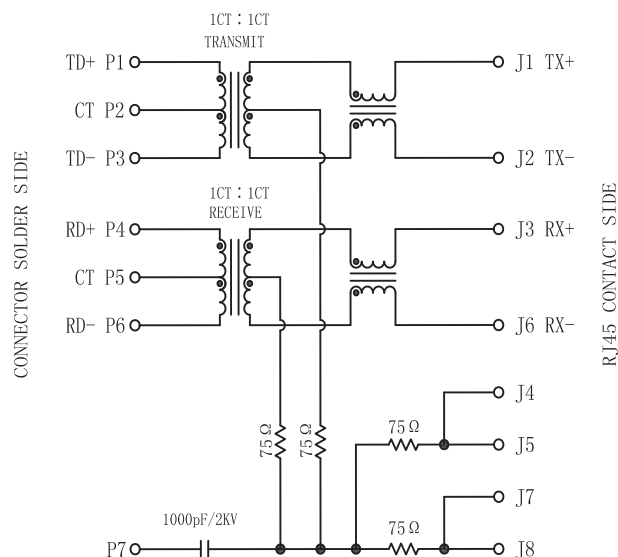
All specifications subject to change without notice.

MECHANICAL



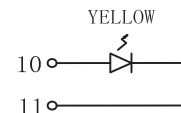


SCHEMATICS



LEFT LED

LED POLARITY		COLOR
PIN 8	PIN 9	
+	-	GREEN

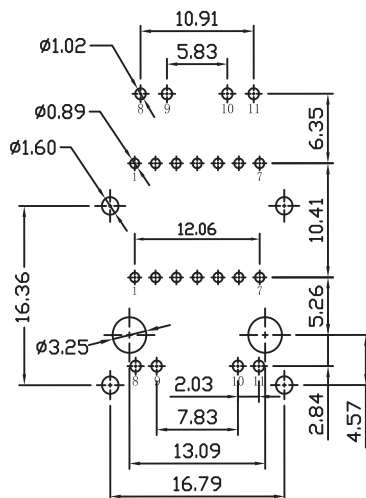


RIGHT LED

LED POLARITY		COLOR
PIN 10	PIN 11	
+	-	YELLOW

Emitting Color	λ p(nm)	$V_F @ I_F = 20\text{mA}$	$I_R @ V_R = 5\text{V}$
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

PCB LAYOUT



NOTES

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3 specification
3. Connector Materials:
Housing: Thermoplastic UL94V-0
Contact/Shield: Copper alloy
Shield plating: Nickel
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max, 5 Sec Max.