



1X4 PoE RJ45 Connector

AR14-4784IR

- 10/100 Base-T Ethernet Application
- PoE to meet IEEE802.3af
- Designed to support SOHO (ADSL Modems), LOM, Hub, and Switches
- Industrial Temp: -40°C to +85°C
- Suitable for IR Reflow



Electrical Specifications @ 25°C

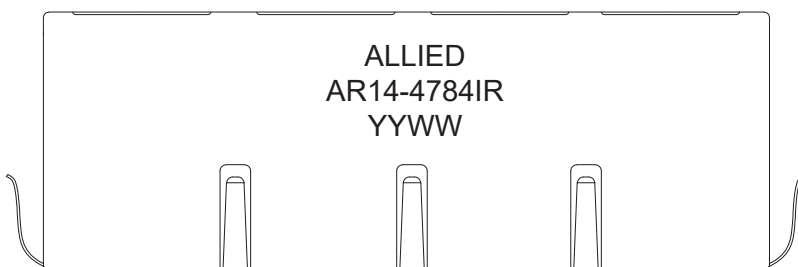
OCL(μ H Min) @ 100kHz, 0.1V With 8mA DC Bias	Turns Ratio ($\pm 2\%$)		Return Loss (dB Min)		
	TX	RX	1-30MHz	30-60MHz	60-80MHz
350	1CT : 1CT	1CT : 1CT	-18	-15	-12

Electrical Specifications @ 25°C

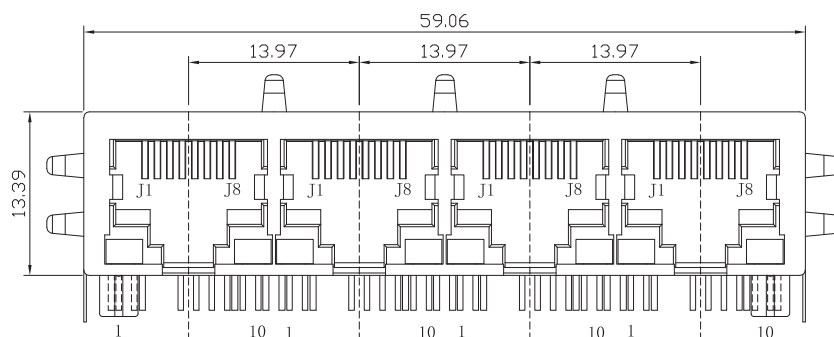
Insertion Loss (dB Max)	Cross Talk (dB Min)	CMR (dB Min)	Balanced DC Line Current @ 57VDC		HI-POT (Vrms)
1-100MHz	1-100MHz	1-100MHz	Continuous	200 Milliseconds	
-1.0	-30	-30	350mA Max	500mA Max	1500

All specifications subject to change without notice.

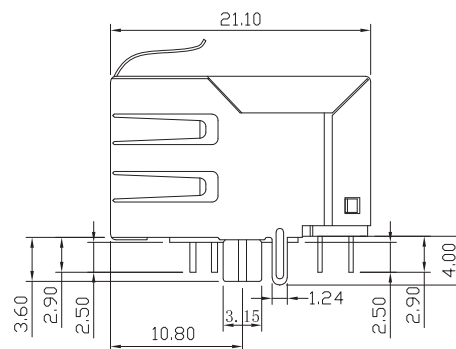
MECHANICAL



Top View

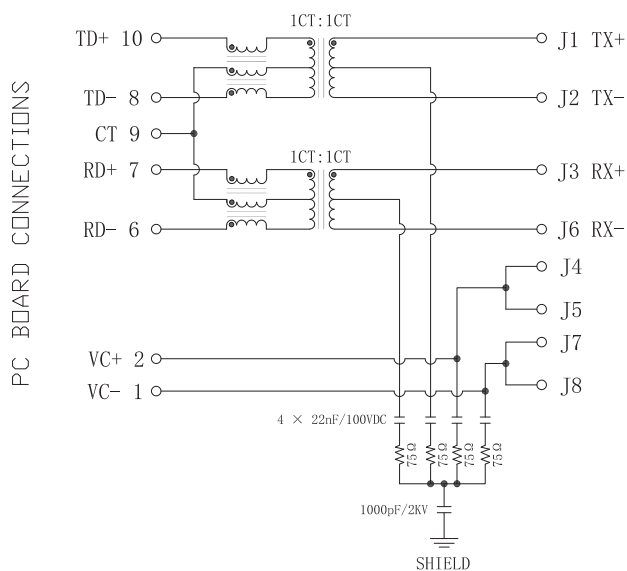


Bottom View



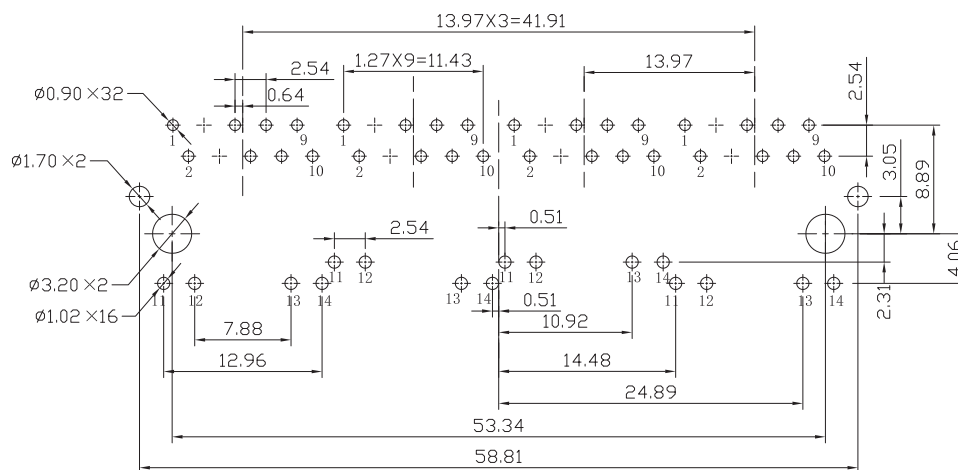


SCHEMATICS



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 μA max
YELLOW	585	1.8~2.6V	10 μA max

PCB LAYOUT



NOTES

- Connector Materials:
Housing Material: Thermoplastic PA46 UL94V-0
Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
Pins: Brass C2680R-H Thickness=0.35mm
Shield: SUS S304-1/2H Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area.
- Reflow temperature: 250°C, 10 Sec.