



- 10/100 Base-T for Ethernet Applications
- PoE enabled, Compliant with IEEE802.3af  
Balanced DC line current:  
350mA MAX @57VDC continuous  
500mA MAX @57VDC 200 milliseconds
- Operating Temp: 0°C to + 70°C
- Contact Factory for possible Industrial Temp version
- Available in other Circuit Designs
- Optional Gold Plating Thickness



Electrical Specifications @ 25°C

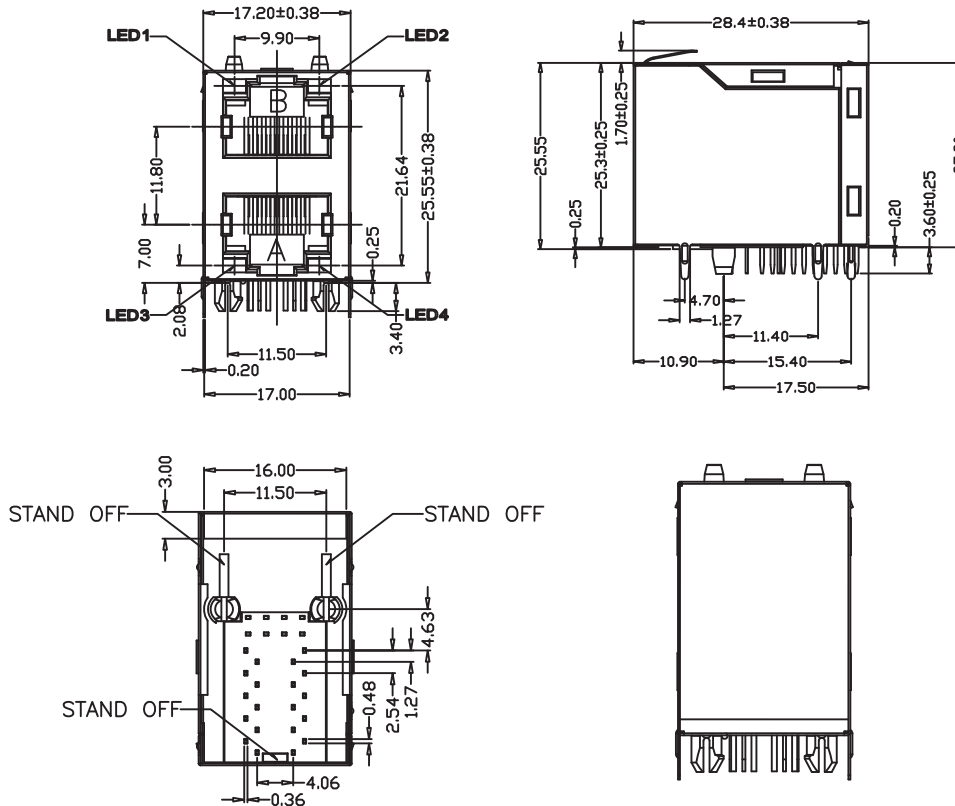
Part Number	OCL(μH Min) @ 100kHz, 0.1V With 8mA DC Bias	Turns Ratio chip: cable (± 2%)	Cross Talk (dB Min)				HI-POT 1.0mA (V)	
			0.5-10MHz	30MHz	50MHz	100MHz	without capacitance	with capacitance
AR21-4042	350	1CT:1CT	-50	-40	-35	-30	1500	2250

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB Max)		Return Loss (dB Min) @ Load 100 Ohm					CMR (dB Min)
	1-100MHz	100-125 MHz (10/100/100)	1-30MHz	30-50MHz	60MHz	60-80MHz	80-100MHz (10/100/1000)	1-100MHz
AR21-4042	-1.0	-1.2	-18	-16	-14	-12	-10	-30

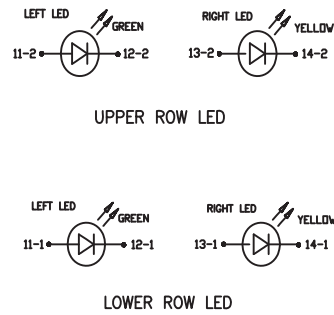
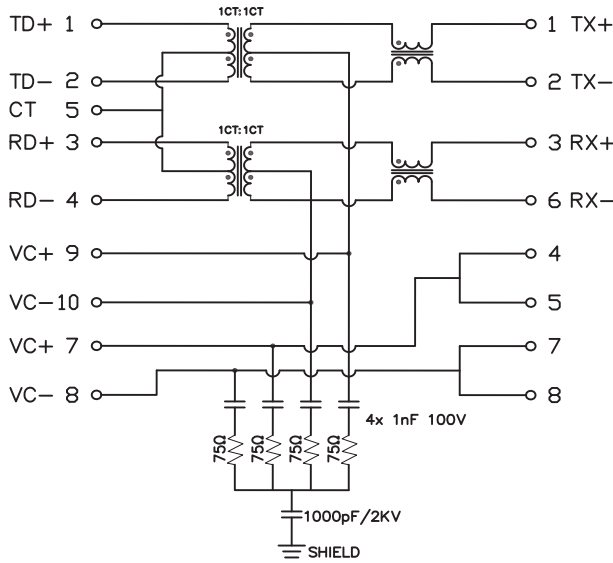
All specifications subject to change without notice.

MECHANICAL

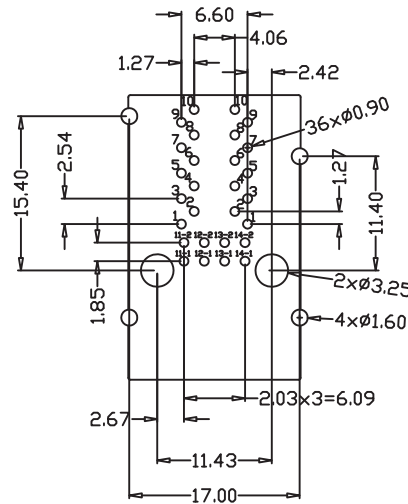




SCHEMATICS



PCB LAYOUT



RECOMMENDED PCB LAYOUT COMPONENT SIDE  
ALL DIMENSION TOLERANCE ARE ±0.05 UNLESS OTHERWISE SPECIFIED

NOTES

1. Shield- 0.20mm THICKNESS BRASS C2680 H.  
PLATING NICKEL 20u" Min
2. Housing- Standard Material Nylon, Glass filled  
Polyester UL94V-0 Standard Color Black.
3. RJ Terminal- Plastic: Nylon66, UL94V-0, Standard  
Color Black.  
Pin: 0.35mm Thickness Phos-Bronze C5210 EH.  
Plating: Nickel 40u"-60u" for all and Sn 100%, and  
6u" Gold Plating.
4. Input Terminal: Plastic Nylon66, Glass Filled, UL94V-0,  
Standard Color Black.  
Pin: 0.35mm Thickness Phos-Bronze C5191.  
Plating: Nickel 40u"-60u" for all and Sn 100%.