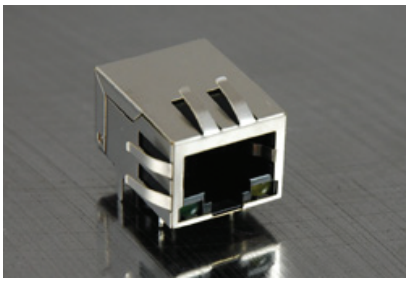
RoHS

RJ45 SINGLE PORT WITH MAGNETICS

- 100 Base-T Ethernet Application
- Meets IEEE 802.3 & ANSI X 3.263 standards
- Impedance: 100OHMS
- Transmit open circuit inductance (OCL): 350uH (MIN) @100KHz 0.1VRMS with 8mA DC Bias
- Always EU RoHS/ELV Compliant, wave solder capable to 265°C
- Rise Time: 2.5nano-seconds from 10 to 90 percent
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Standard operating temp: 0ºC to +70ºC (see footnote)
- Industrial operating temp: -40ºC to +85ºC (see footnote)



Electrical Specifications @25°C

Part Number	OCL(uH min) @100KHz/0.1V with 8mA DC Bias	Turns Ratio chip: cable (±3%)	EMI Fingers	LED (L/R)	Insertion Loss (dB Max)	Return Loss (dB Min)		
					0.5-100MHz	0.5-30MHz	30.1-60MHz	60.1-80MHz
AR1009-1326_	350	1CT:1CT	YES	G/Y	1.1	18	18-20*LOG(f/30)	12

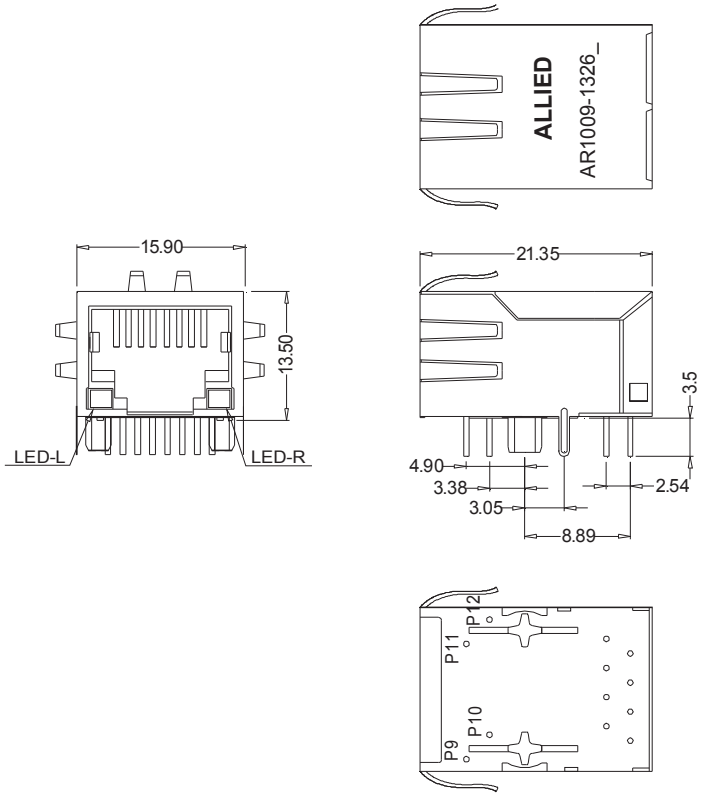
Electrical Specifications @25°C

Part Number	Cross talk (dB Min)		CMRR (dB Min)	HI-POT (VDC)
	0.5-40MHz	40.1-100MHz	0.5-100MHz	
AR1009-1326_	35	33-20*LOG(f/50)	30	2250

***Complete part number by inserting "S" for Standard Temp. or "I" for Industrial Temp.**

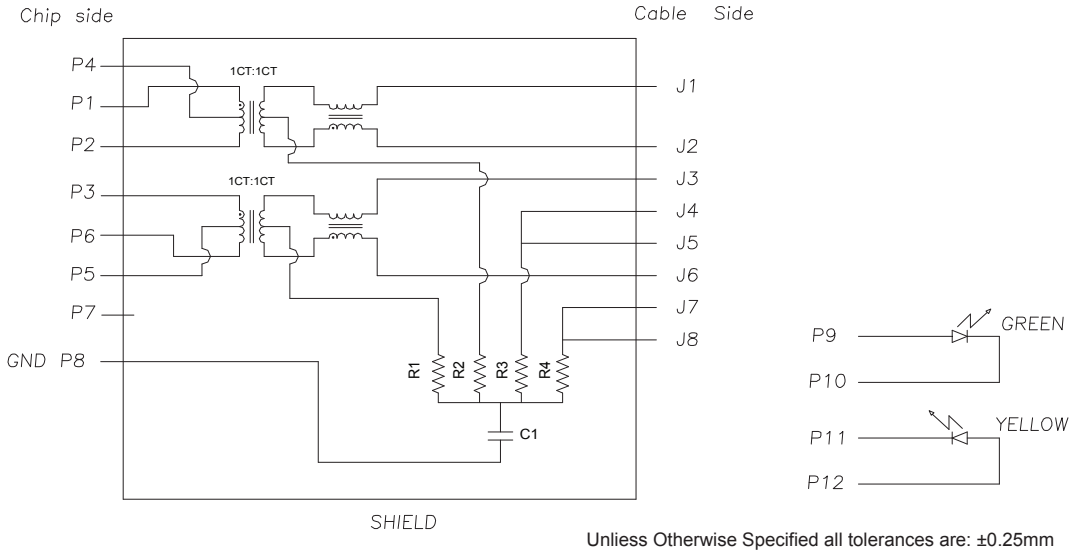
All specifications subject to change without notice.

MECHANICAL



Unless otherwise specified all tolerances are: ± 0.25 in mm

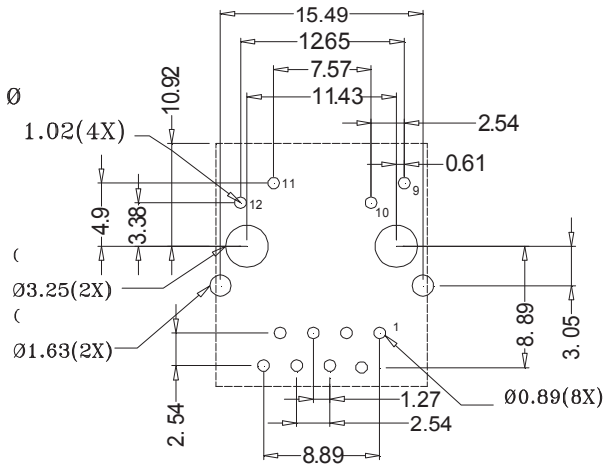
SCHEMATICS:



Unliess Otherwise Specified all tolerances are: ±0.25mm

Notes:
1. R1-R4=75 Ohms, 1/16W, 5% Resisitors.
2. C1=1000pF, 2KV Decouping Capacitor.
3. LED Compliant with IEC60825-1 Safety of Laser Products when operated up to 20mA.
4. LED Forward Voltage: 2.1V(TYP), LED Power Dissipation: 105mW. LED Peak Wavelength: Green=565nm, Yellow=585Nm

PCB Layout:



All Dimensions Tolerances Unless Otherwise Specified are: ±0.05mm

Materials and Finish:
Housing: PBT, Flammability Rating 94V-O.
Shell: C2680 Brass, 025mm thick, 80+150u" nickel plating.
Mod Jack Contact: Phospher Bronze, 0.35mm thick, Gold Plated.
LED: Diffused Epoxy Lens, 0.5x0.5mm Carbon Steel wireframe leads.