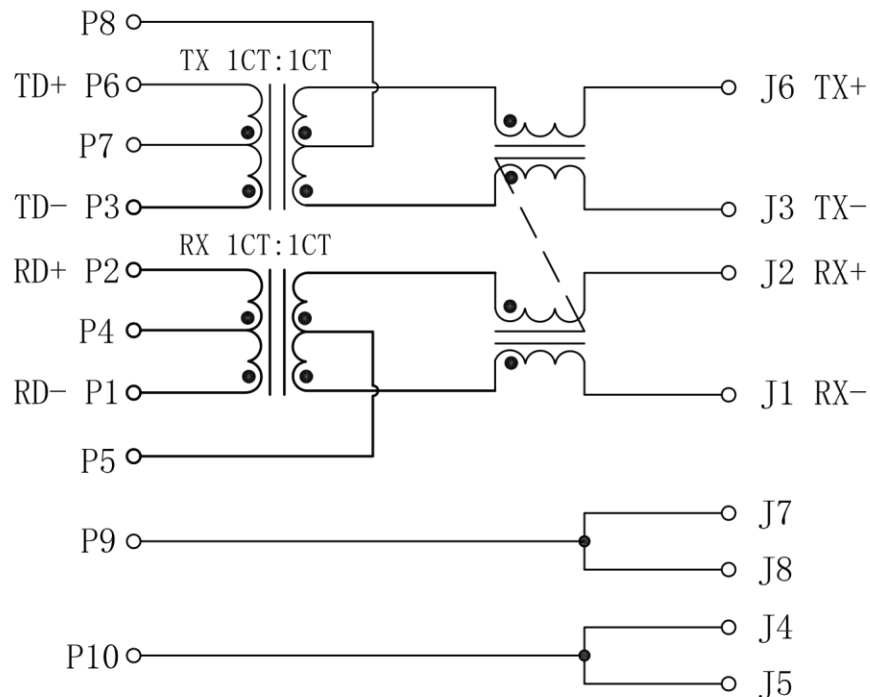
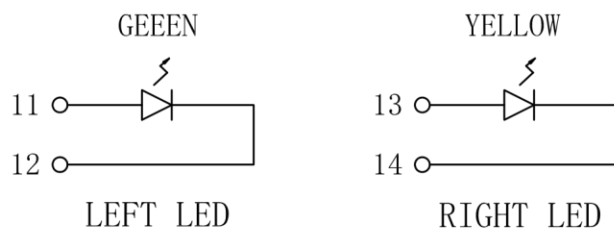


Schematic:

PC BOARD CONNECTIONS



RJ45 CONNECTOR



Emitting Color	λ_p (nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.4V	10 μ A max
YELLOW	585	1.8~2.4V	10 μ A max

ELECTRICAL SPECIFICATIONS@25°C

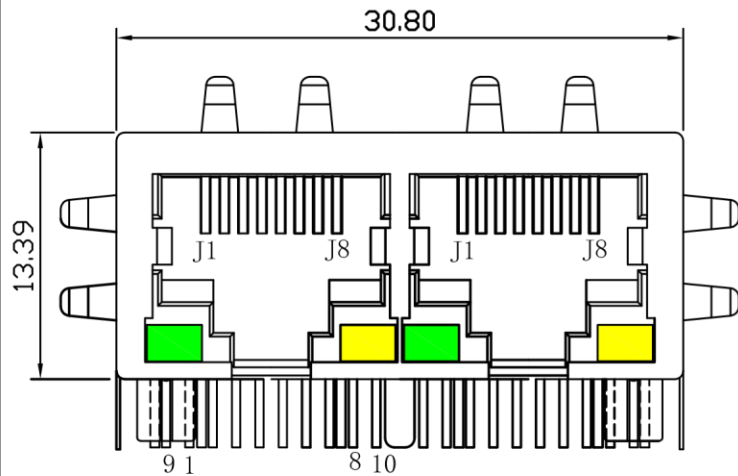
- Turn Ratio($\pm 3\%$):
TX=1CT:1CT RX=1CT:1CT
- Inductance OCL:
350uH MIN@100KHz/0.1V,8mA DC Bias
- Insertion Loss:
-1.2dB MAX @ 1-100MHz
- Return Loss:
-16dB MIN @ 1-30MHz
-14dB MIN @ 40MHz
-13dB MIN @ 50MHz
-12dB MIN @ 60-80MHz
- Cross talk:
-43dB MIN @ 30MHz
-37dB MIN @ 60MHz
-33dB MIN @ 100MHz
- Differential to Common Mode Rejection:
-50dB MIN @ 30MHz
-43dB MIN @ 60MHz
-35dB MIN @ 100MHz
- Balanced DC Line Current:
350mA MAX @48VDC
- Hipot Test: 1200Vrms MIN
- Operating Temperature Range: -40°C TO +85°C.



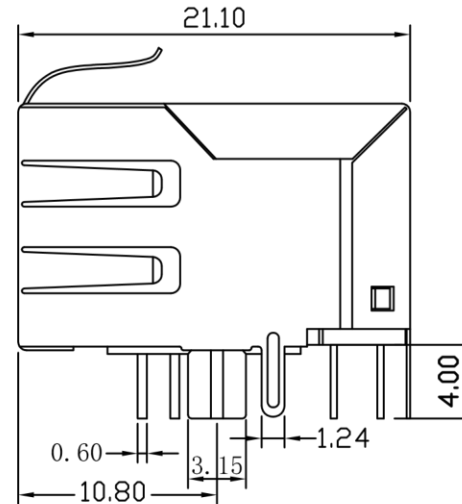
X:X	± 0.30	APPD:	Summit Electronics BV		
X:XX	± 0.25	CHKD:			
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application		
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. :	SRJ102010020	
SCALE: 2/1		SHEET: 1/2	REV: A	DWG NO. :	

Mechanical:

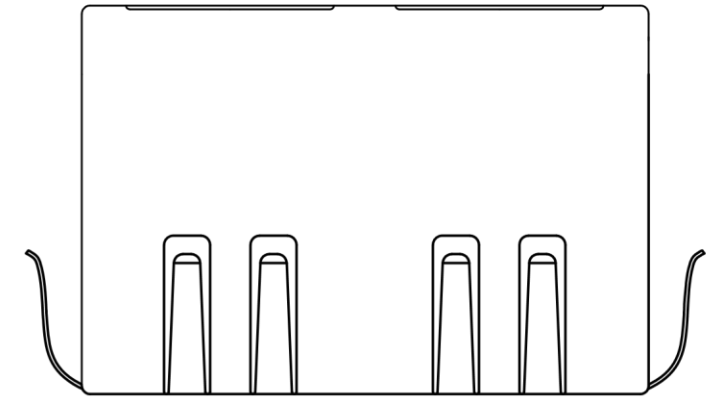
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		29/08/2009	



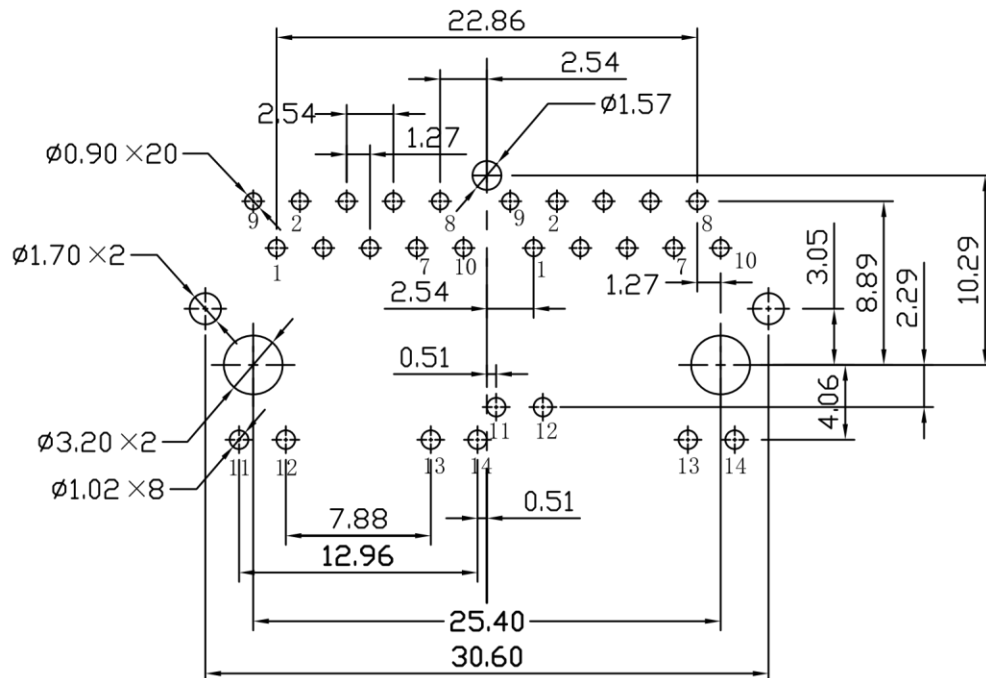
Front Side View



Left Side View



Top Side View



Suggested PCB Layout (Top View)

NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3af 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. Support Power over Ethernet (PoE).



X:X	±0.30	APPD:	Summit Electronics BV	
X:XX	±0.25	CHKD:		
X:XXX	±0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application	
ANGLES	±1°	UNIT: mm	PART NO. : SRJ102010020	
SCALE: 2/1		SHEET: 2/2	REV: A	DWG NO. :