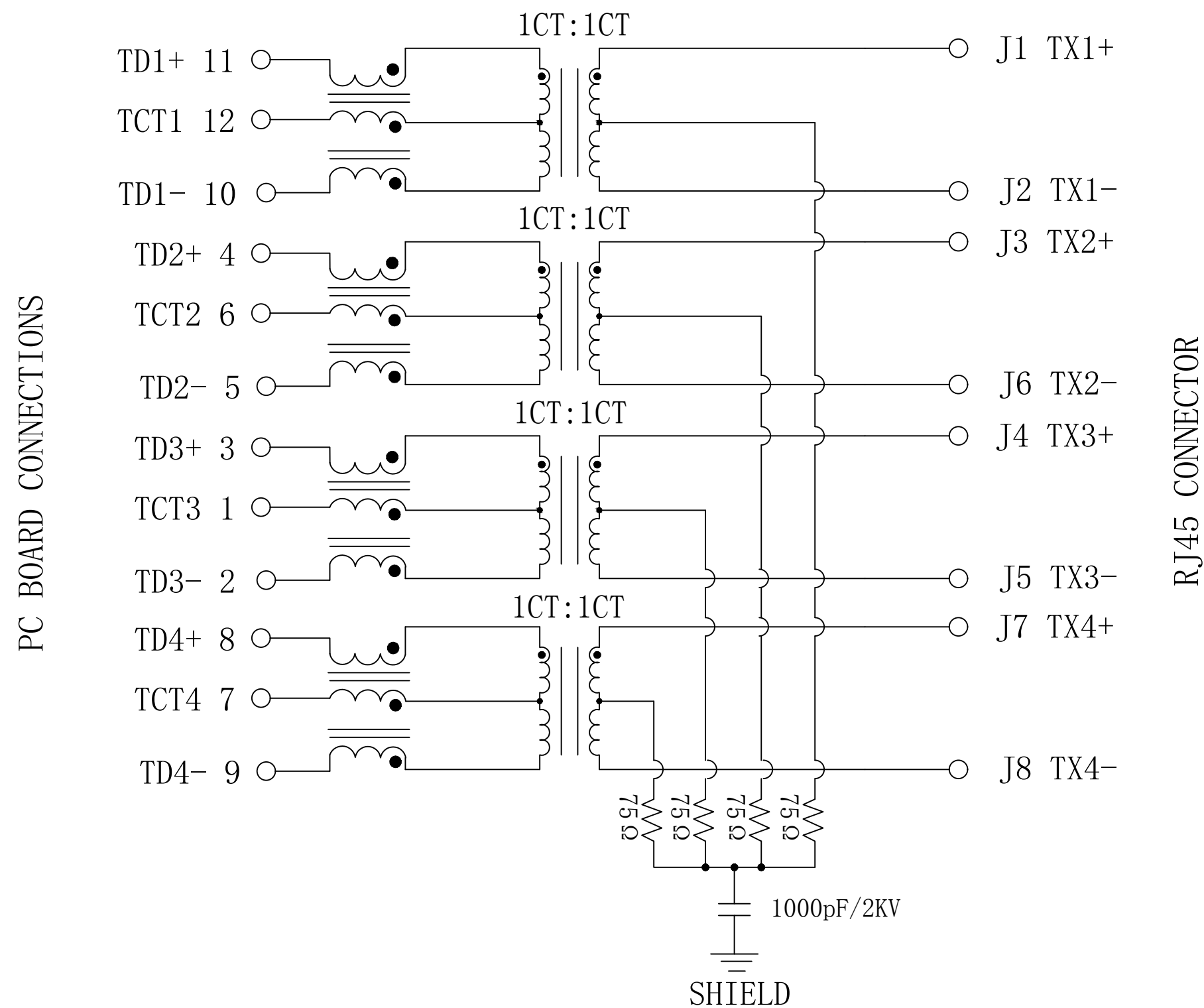


Schematic:

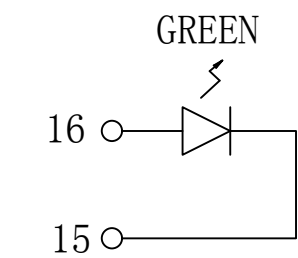
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-21	



ELECTRICAL SPECIFICATIONS @25℃

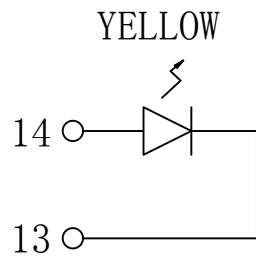
- Turn Ratio : 1CT:1CT $\pm 5\%$
- OCV: 200uH Min @100KHz , 0.1V
- Insertion Loss (dB Max):
1-100MHz: -1.0 100-125MHz: -1.5
- Return Loss(dB Min):
1-30MHz: -16 30-100MHz: -12
100-150MHz: -10
- Cross Talk:
1-125MHz: -25dB Min.
- Common Mode Rejection(dB Min):
1-125MHz: -30
- Common Mode to Differential Mode Rejection(dB Min):
1-100MHz: -30 100-125MHz:-25.
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature Range: 0℃~70℃.

Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max



LEFT LED

LED POLARITY		COLOR
PIN 16	PIN 15	
+	-	GREEN



RIGHT LED

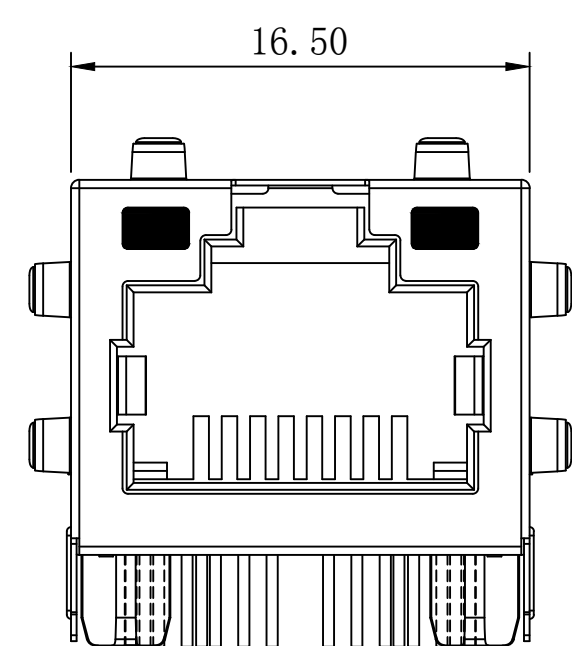
LED POLARITY		COLOR
PIN 14	PIN 13	
+	-	YELLOW



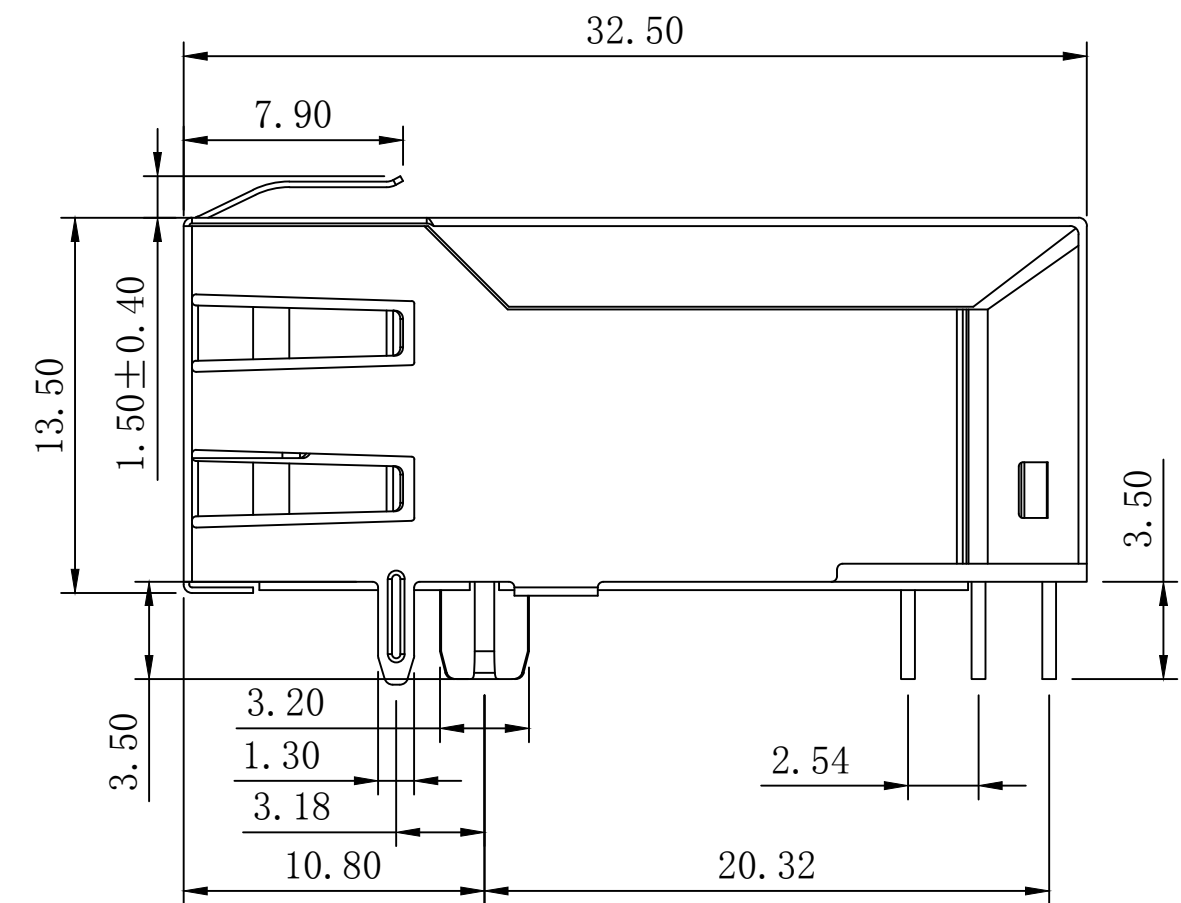
X:X	± 0.30	APPD: TOM	Summit Electronics BV	
X:XX	± 0.25	CHKD: JAMES		
X:XXX	± 0.05	DR: LEO	TITLE: RJ45 Connector with 2.5G Base-T Integrated Magnetics	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.:	SRJ101250010
	SCALE: 2/1	SHEET: 1/2	REV: A6	DWG NO. : LP23032101

Mechanical:

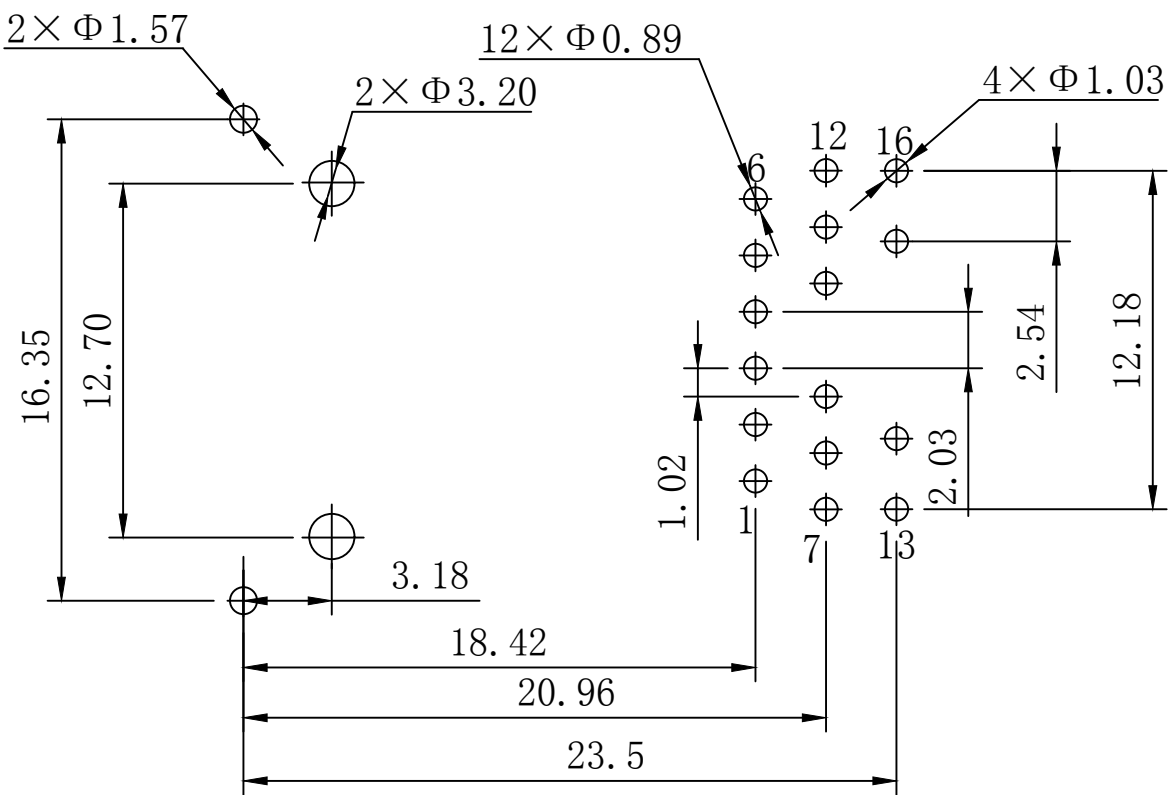
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-21	



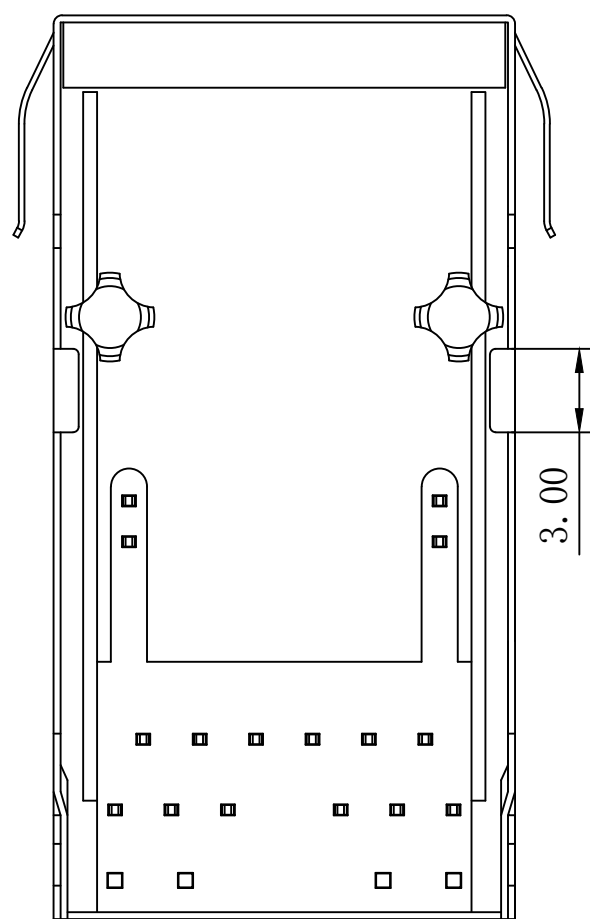
Front Side View



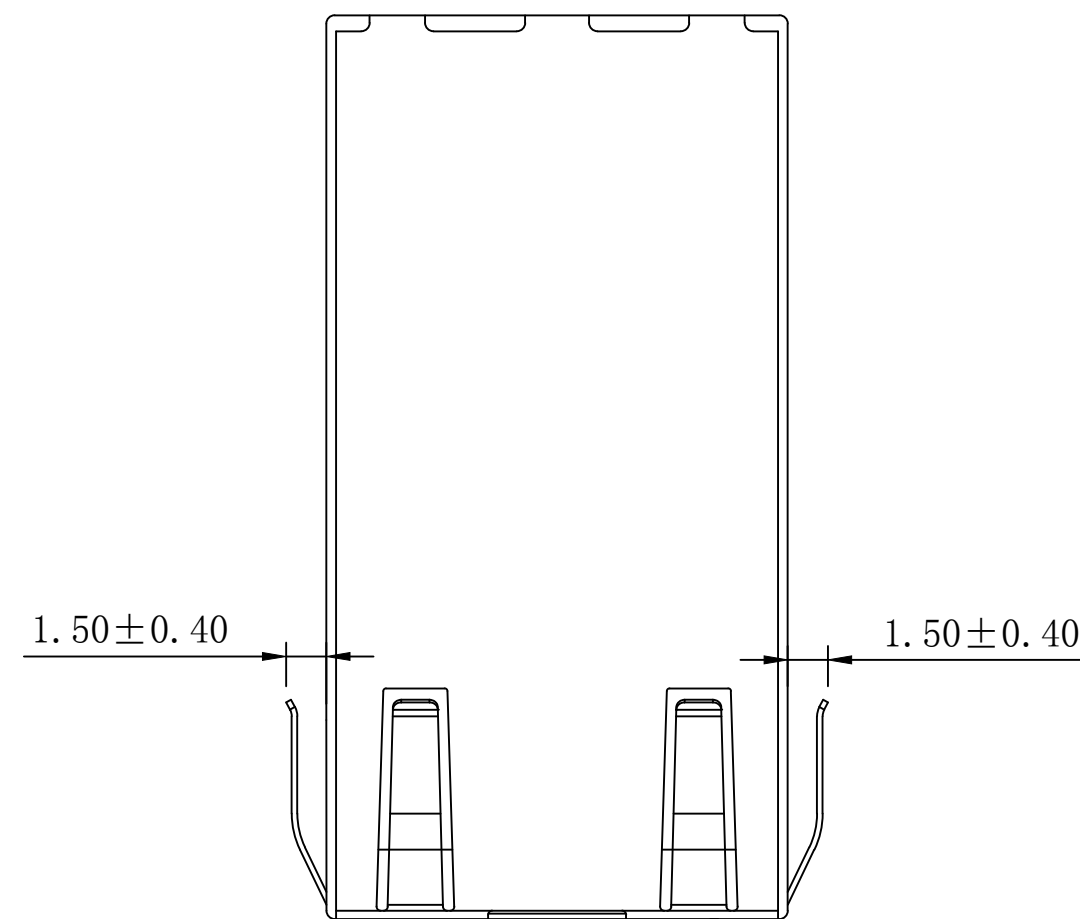
Left Side View



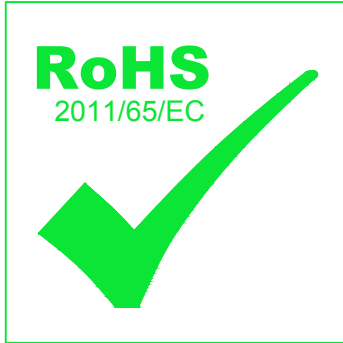
Suggested PCB Layout(Top View)



Bottom Side View



Top Side 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 Material: Thermoplastic PBT+30%G.F UL94V-0
Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
Pins: Brass C2680R-H Thickness=0.35mm
Shield: SUS 304 1/2EH Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 250°C, 5 Sec.

X:X	±0.30	APPD:	TOM	Summit Electronics BV	
X:XX	±0.25	CHKD:	JAMES		
X:XXX	±0.05	DR:	LEO	TITLE: RJ45 Connector with 2.5G Base-T Integrated Magnetics	
ANGLES	±1°	UNIT:	mm	PART NO.: SRJ101250010	
		SCALE:	2/1	SHEET:	2/2
		REV:	A6	DWG NO.:	