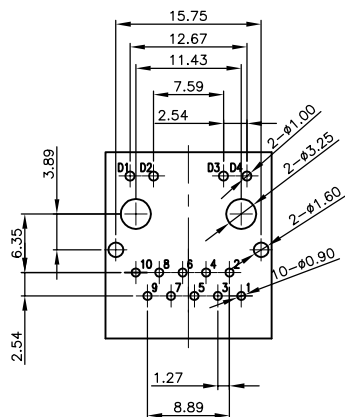
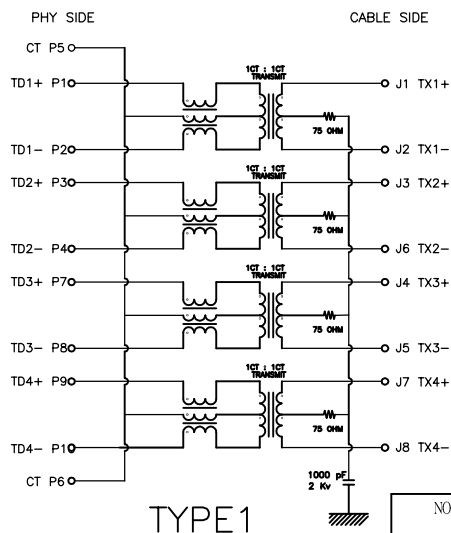




## Schematic 2.5G



RECOMMENDED PCB LAYOUT  
TOL:±0.05(JACK TOP VIEW)



TYPE1

NO	LED 1	LED 2
S3T1X-162-03		

Notes:

Characteristics Description:

1. RJ45 2.5G Base-Tx Transformer Jack With Transformer Impedance Resistor/High Voltage Capacitor.
2. Size Same As RJ-45 Modular Jack To Save PCB Space.
3. Reduce EMI Radiation, Improve EMI Performance.
4. Designed For Network Interface Card Application.
5. Designed To Meet IEEE 802.3ab Requirement.
6. Designed For 2.5G Base Transmission over UTP-5 Cable.

### Electrical Specifications:

1. Inductance At 100 KHz, 100 mV 8mADC Bias: 180 uH Min.
2. Leakage Inductance 0.4 uH Max. @100KHz 100mV
3. Insertion Loss: 0.5 dB Max. @ 1-50 MHz;  
1.0 dB Max. @ 50-125 MHz  
2.0 dB Max. @ 125-200 MHz
4. Return Loss: 20dB Min. @ 1-40MHz  
-20+15\*log(Freq MHz/40MHz)dB Min. @ 40-200MHz
5. Cross Talk: 35dB Min. @ 1-40MHz;  
35+15\*log(Freq MHz/40MHz)dB Min. @40~125MHz
6. Common Mode Rejection: 25dB Min. @1-100MHz
7. Isolation Voltage @60Hz:1500Vrms(Input To Output) 60 Seconds

Mechanical:

1. Housing Material: PBT, BK,UL94V-0
2. Insert Material: HIGH TEMP BK UL94V-0
3. Contact Mateial: Phosphor Bronze t=0.30mm.
4. Plating : Contact Area-Gold Plating.
5. Shield Material:Brass C2680 .T=0.2mm
6. Operating Life: 750 Cycles Min.

Environmental:




- 1.Storage:  $-40^{\circ}\text{C}$  To  $+85^{\circ}\text{C}$ .  
2.Operation:  $0^{\circ}\text{C}$  To  $+70^{\circ}\text{C}$ .

Mates With Modular Plug Conforming To TIA-1096-A

Part Number: S3T1X-162-XX

9-0.4um Min—

— 03:PBT BK ,LED1:YELLOW LED2:GREEN,W/O  
EMI TYPE1.

	000000	NEW DESIGN		Andy	021022		
MARK	ECN-NO.	REVISION RECORD		DRAWN	DATE		
		UNLESS OTHERWISE SPECIFIED TOLERANCE		SCALE			
		Dimension Range Tolerance		CHECKED			
		X.X	±0.20	UNIT	APPROVED		
		X.XX	±0.15	mm			
		X.XXX	±0.10	SIZE			
Contact Technology Co., Ltd.		ANGLE	±5°	A3		SHEET	1/1
Material/Plated/Notes		NAME RJ45 1Port Black Gold plated; 0.4um 8P10C					
SEE NOTE		With iron shell with LED:Yellow on the left, green on the right, 2.5G Transformer Jack					
Tooling No.		PART NO. S3T1X-162-03			REV.		
		DOC. NO. S3T0A162			