

A. MECHANICAL(UNIT:mm)

RJ45 MECHANICAL NOTES:

REV	ECN NO	DESCRIPTION	DATE
A	/	New Drawing	2025/5/6

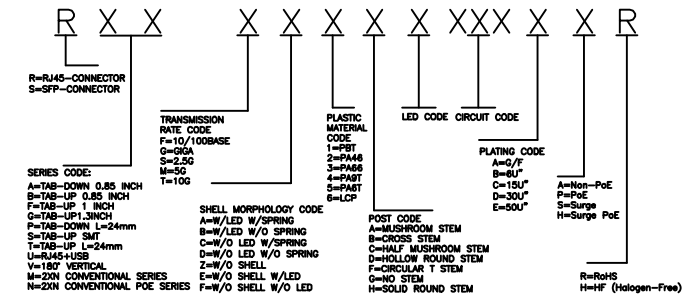
- 1.THE PRODUCT IS ROHS COMPLIANT.
- 2.ALL DIMENSIONS FOLLOW :
 - FCC SUBPART F, 68,500, FIGURE (C)(2)(I) & (C)(2)(II) & (C)(3)(I) IEC 60603-7
 - ALL PLUGS MUST BE MEETING THE REQUIREMENTS OF PLUG GO & NO-GO GAUGE.
- 3.GAUGE FOLLOW : FCC SUBPART F, 68,500, FIGURE (C)(4)(I) & (C)(5)(I)
 - THERE MUST BE NO DAMAGE TO HOUSING AND LOCKING LATCH.
 - THERE MUST BE NO NICKS AND CUTS IN CABLE.
 - DURABILITY : 750 CYCLES GENERALLY
- 4.PART CAN BE RECOMMENED FOR REFLOW SOLDERING PROCESS.
 - PEAK REFLOW SOLDERING TEMPERATURE IS 260°C MAX,10SECONDS MAX.
- 5.OPERATING TEMPERATURE:-40 TO +85°C;
- 6.STORAGE TEMPERATURE: -40 TO +85°C

7.MATERIAL:

- 7.1 HOUSING: HIGH TEMPERATURE THERMOPLASTIC LCP.
FLAMMABILITY RATING ,UL 94V-0; COLOR:BLACK.
- 7.2 SHELL: BRASS C2680, THICKNESS=0.20mm.PLATING NICKEL 30u"Min;
- 7.3 RJ TERMINAL: HIGH TEMPERATURE THERMOPLASTIC LCP,COLOR:BLACK;
UL 94V-0;
RJ PIN:THICKNESS=0.30mm.PHOS-BRONZE C5210.
PLATING: 50u" MIN NICKEL UNDERPLATING ALL AREA.
100u" MIN TIN ON SOLDER TAIL.
30u" GOLD ON CONTACT AREA.

- 7.4 PHY PIN:THICKNESS=0.30mm. BRASS C2680.
PLATING: 50u" MIN NICKEL UNDERPLATING ALL AREA.
100u" MIN TIN ON SOLDER TAIL.

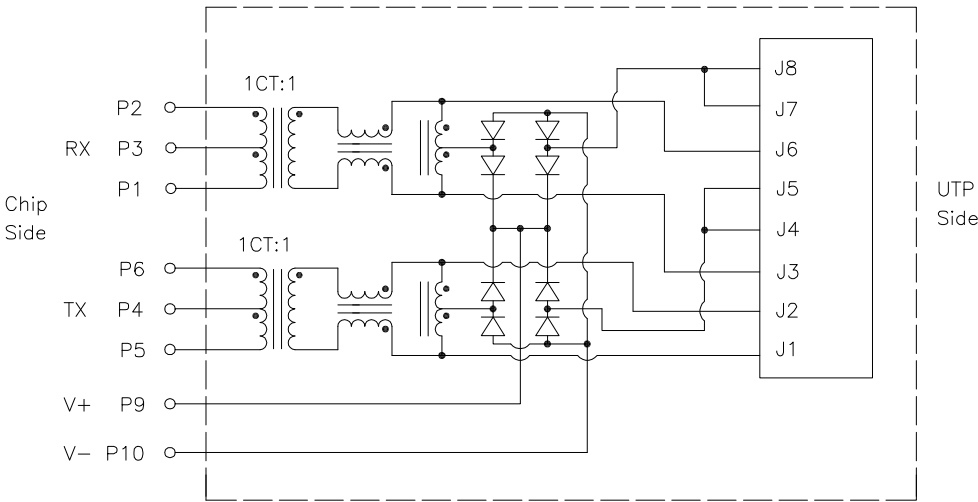
8.CODING PRINCIPLES



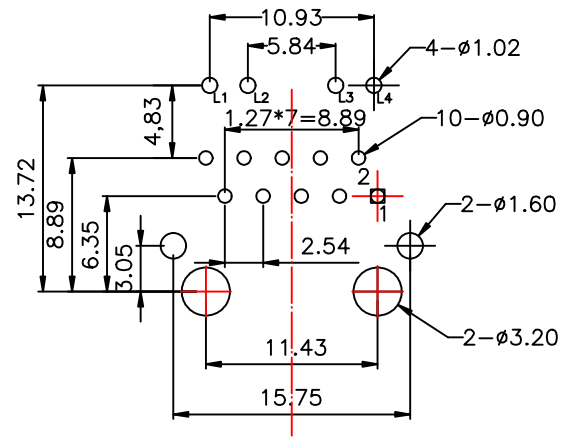
X. ± 0.40	APPD: LH.WANG	 思科飞尔技术（深圳）有限公司 SISCOFER TECHNOLOGY (SHENZHEN) CO. LTD.
.X ± 0.30	CHKD: LOUIS	
.XX ± 0.25	DR: LIANG	PART NO: RF1-FB6B2078DAR
.XXX ± 0.20		TITLE: TAB UP 1X1Port 10/100 BASE-T RJ45 JACK Magnetics
X* ± 3' .X* ± 2'		
UNITS: mm		
	SHEET: 1 OF 2	REV: DWG NO: REMARK:
	SCALE: 1:1	A RF1-0116 XXX-XXXX



B.SCHEMATICS



C:PIN ASSIGNMENT FOR PCB LAYOUT



SUGGESTED PCB PAD LAYOUT
COMPONENT SIDE VIEW

REV	ECN NO	DESCRIPTION	DATE
A	/	New Drawing	2025/5/6

D. ELECTRICAL SPECIFICATIONS @25℃

TRANSMITTER FILTER & RECEIVER FILTER
TYPE : BALANCE LOW PASS 100Ω IMPEDANCE
INSERTION LOSS : 1~100MHz -1.0dB MAX.
RETURN LOSS : 1~30MHz -18dB MIN. LOAD 100Ω
 30~60MHz -16dB MIN. LOAD 100Ω
 60~80MHz -12dB MIN. LOAD 100Ω
 80~100MHz -10dB MIN. LOAD 100Ω

COMMON MODE REJECTION
 @1~100 MHz -30dB MIN.

CROSS TALK
 @ 1~100MHz -30dB MIN.

INDUCTANCE (OCL) @ 100KHz, 0.1V, 8mA DC BIAS 350 uH MIN.

DCR:1.2 OHM MAX

HIPOT TEST
PHY SIDE(INPUT) TO CABLE SIDE(OUTPUT) : 1500Vrms 60S

E:LED SPECIFICATION



Emitting Color	λp (nm)	Vf @If=20mA	Ir @Vr=5V
GREEN	570	1.7 ~2.6 V	10mA max
YELLOW	590	1.7 ~2.6 V	10mA max

X. ± 0.40 .X ± 0.30 .XX ± 0.25 .XXX ± 0.20 X* ± 3' .X* ± 2' UNITS: mm	APPD: LH.WANG CHKD: LOUIS DR: LIANG	 思科飞尔技术（深圳）有限公司 SISCOFER TECHNOLOGY (SHENZHEN) CO.LTD	
	PART NO: RF1-FB6B2078DAR TITLE: TAB UP 1X1Port 10/100 BASE-T RJ45 JACK Magnetics		
	SHEET: 2 OF 2 SCALE: 1:1	REV: A DWG NO: RF1-0116 REMARK: XXX-XXXX	