SPECIFICATION			
APPLICATION FOR APPROVAL			
PART NAME : DATE :	315 PCB ANTENNA 2023/4/4		
Release : Full release			
Customer Approval			
Program Manager	R & D director		
Peter Lu	Peter Lu		
Supplier Approval			
Program Manager	R & D director		
郝井强(Jingqiang Hao)	孙高鹤(Gaohe Sun)		

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Company:Tianjin Yingshun Communication Technology Co., Ltd Address: Room 805, Building 2, Fubao Industrial Park, Zhangjiawo Town, Xiqing District, Tianjin

REVISION

REV.NO.	DATE	DESCRIPTION
0	2023/4/4	APPROVAL

1. ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

Freq. Band	Freq.(MHz)
315	310-320MHz

1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : 50 ohms

1-3 MATCHING REQUIREMENTS

The matching circuit on the PCB of the handset is according to Figure 1-3. Optimum matching circuit is highly dependent on the handset and thus. Final matching circuit layout and values will be defined when handset is available

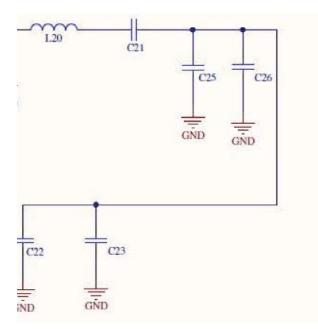


Figure 1-3

3.ENVIRONMENTAL CHARACTERISTICS

Customer No: Sensata	File: 2023/04/04
Technologies (Changzhou) Co., Ltd.	
Test Condition:	Note:
FREE SPACE	VSWR/ReturnLoss/Smith Chart
Confirmation: Jing Qiang Hao	Engineer: GaoHe Sun

NO.	ITEM	TEST CONDITION
		1.Temperature: 25.1±1℃
1		2. Humidity: 34%±2%
	3. Pressure: 100.9KPa	

4. Test equipment

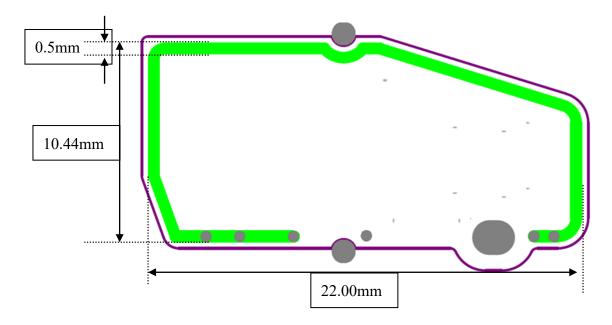
Equipment	Model No	Manufactory	Series No
ENA vector analyzer	E5071C	Keysight	MY46900684
OTA chamber	FT-0024	FEITU	FS20200302

5. PACKAGING

Antenna is PCB type , packaging with PCB board.

6. APPENDIX

All of the specifications are shown as the attached files.



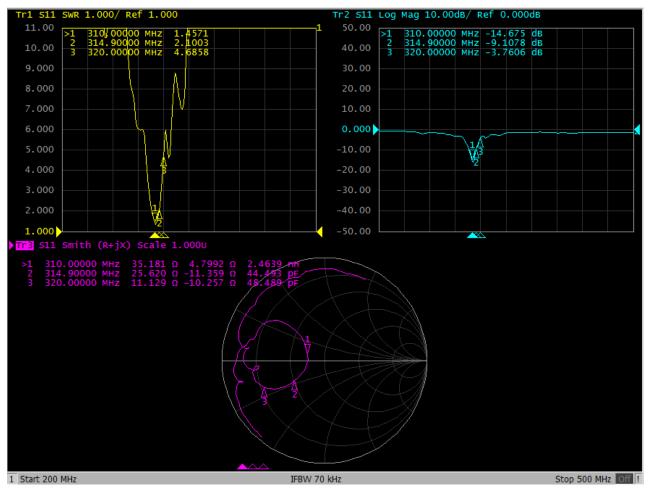


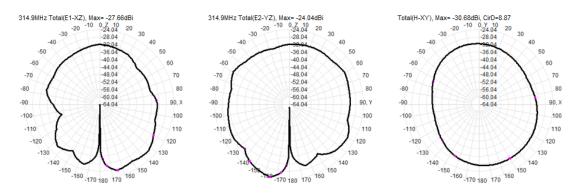
Figure 2-1

Antenna Test Date

-: Antenna Efficiency&PeakGain

Frequency ID	1	
Frequency (MHz)	314.9Mhz	
Efficiency (dBi)	-31.51	
Gain (dBi)	-24.04	
Efficiency (%)	0.07	
Directivity (dB)	7.48	
Peak Gain Position (Theta)	165.00	
Peak Gain Position (Phi)	90.00	
Efficiency ThetaPol (%)	0.05	
Efficiency PhiPol (%)	0.02	
Upper Hem. Efficiency (%)	0.03	
Lower Hem. Efficiency (%)	0.04	

∴: Antenna 2D-XZ/YZ/XY



Ξ: Antenna 3D (314.9MHz)

