

深圳市云希科技有限公司

ShenZhen Yunxi Technology Co.,Ltd.

Antenna test Report

Customer: 合悦丰

Project Name: BH507

RF Engineer: 吴工

Testing Date: 2022-8-30

Operating band: RFID



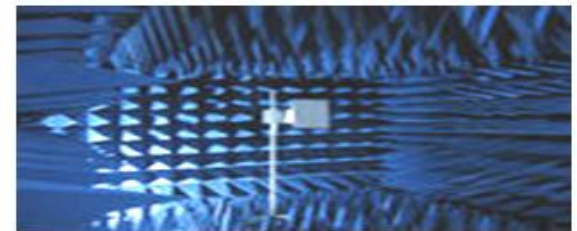
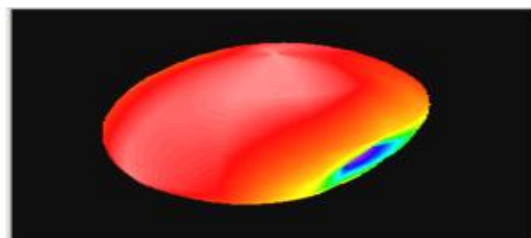
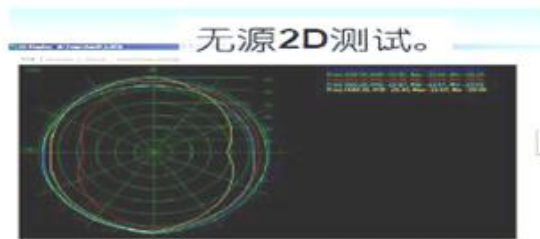
1.Project brief

NO.	ITEMS	DETAILS
1	Operating band	RFID
2	Frequency range	(115-150KHz)
3	Antenna Type	copper coil antenna
4	Antenna material and implementation form	The antenna is pasted on the surface shell with FPC
5	Antenna part number	N022A-ADAFO-050-A
	Antenna part number	
6	Input Impedance	50 (Ω)
7	Gain	

RF	吴工
ME	邹工

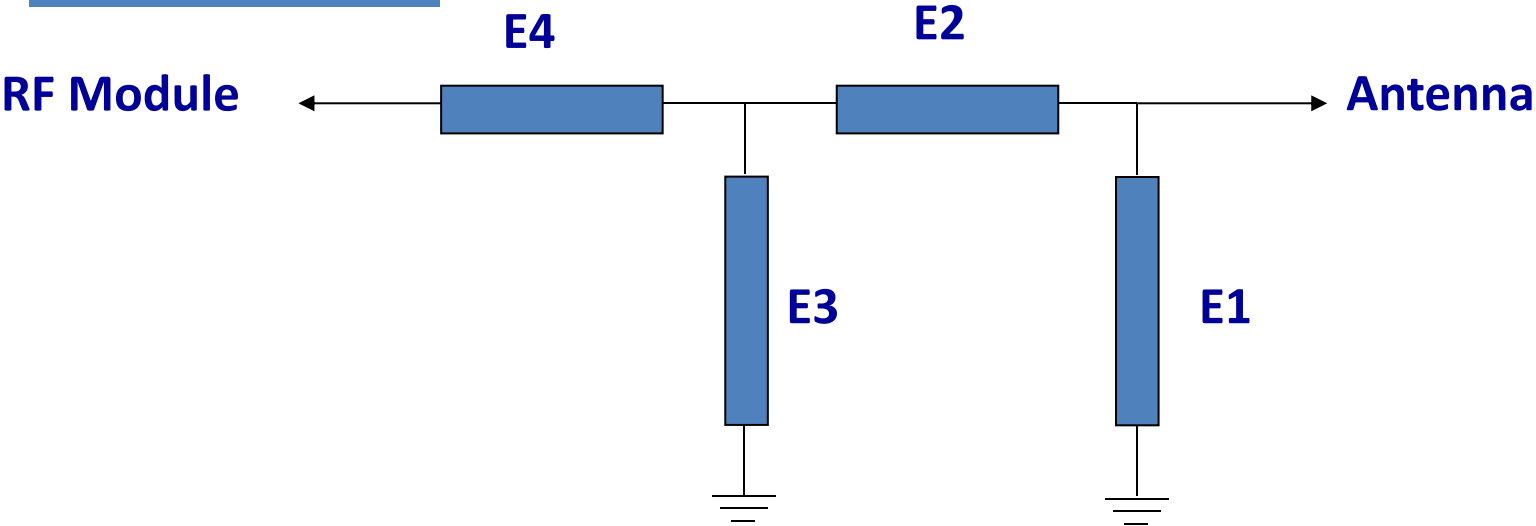
3.Test system and equipment

	Test items	equipment
1. S parameter	1.Return loss 2. Standing wave ratio	network analyzer: HP E5071C/Agilent8753D
2.Coupled power test	1. Transmit power 2. Receiving sensitivity	GSM Tester: Agilent 8960 LTE Tester: CMW500
3. Radiation mode and gain	1. Radiation mode 2. Antenna gain	1. darkroom: 7x4x3 m (ETS-3D) 2. network analyzer: HP Agilent8753ES



Matching Circuits

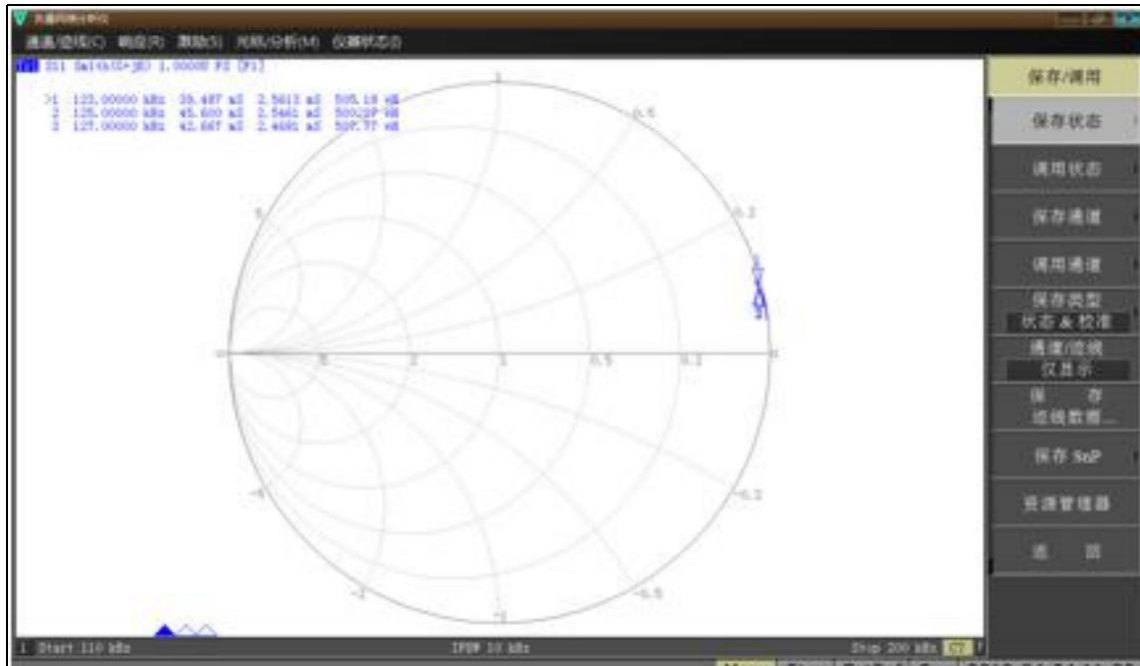
Antenna matching



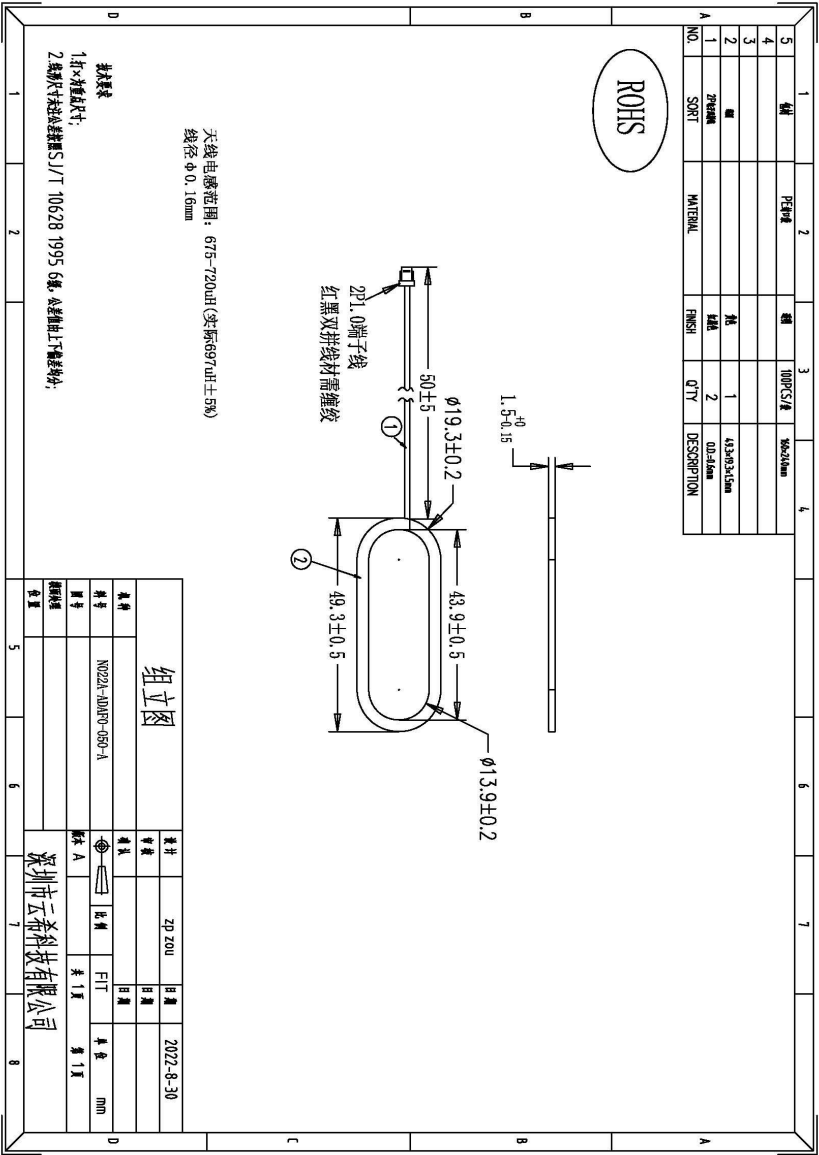
Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

The original matching circuit has no modification

Smith Chart



Antenna Drawing



The end , thanks!