

Infinity Hardware Electronics Co.,Ltd

NO.5 Haiyi RD, ChongTou Community,Changan Town, DongGuan city,Guangdong Province, China

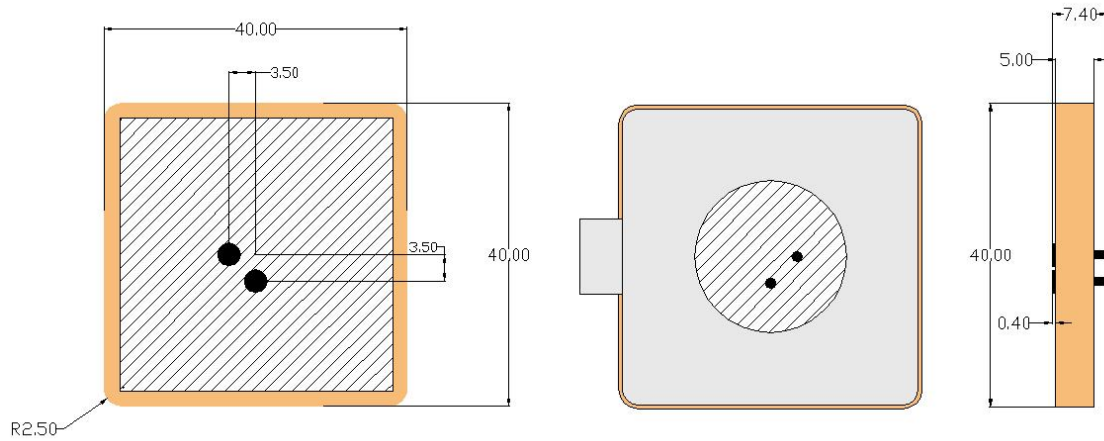
Contact: Soojin Wu 86-13662707642

E-mail: soojin@infinity-cn.com

INF-915SKTC4050 Specification

40*40*5mm Double-Fed RFID Ceramic Antenna

1. Dimension: 40*40*5mm



以上单位均为mm，未标注公差为 ± 0.2

2. Structure and Material

NO	Name	Material
1	Ceramic Dimension	40*40*5mm
2	Antenna Dimension	40*40*7.4mm

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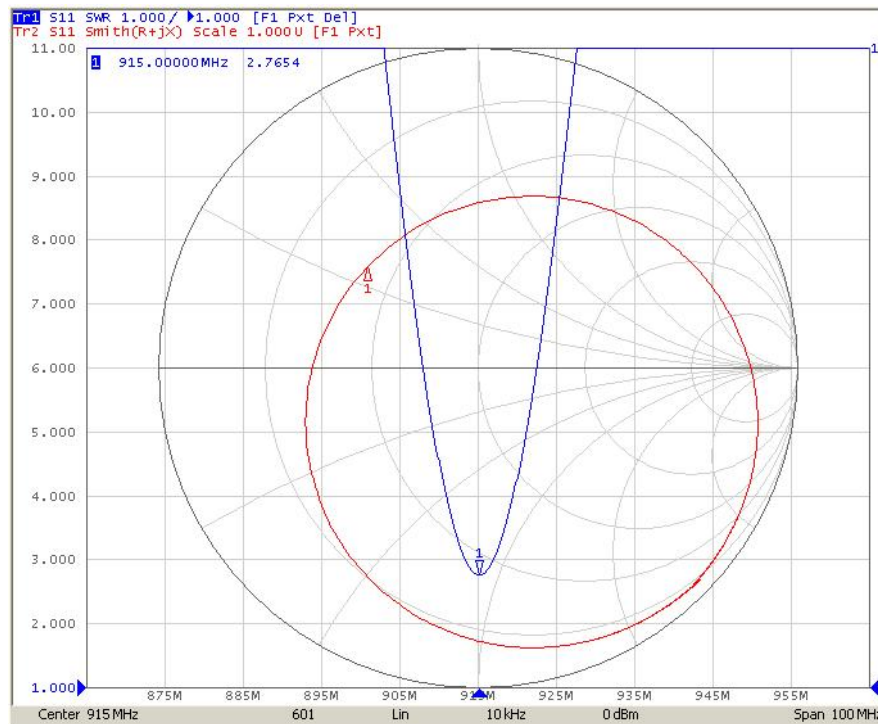
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3. Electrical Characteristics

NO	Item	Parameter	Tolerance
3.1	Receiving Frequency Range	900-930MHz	$\pm 1.0\text{MHz}$
3.2	Center Frequency	915MHz	$\pm 2.0\text{MHz}$
3.3	Bandwidth	30MHz	$\pm 0.5\text{MHz}$
3.4	Gain	3dBi	± 1.0
3.5	Axial Ratio	$\leq 3.0\text{dB}$	± 0.2
3.6	Polarization	Circular Polarization	---
3.7	Impedance	50 Ohm	± 5.0
3.8	Frequency-temperature coefficient	20max	---
3.9	Working Temperature	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	

4. Test Data

Before coupling



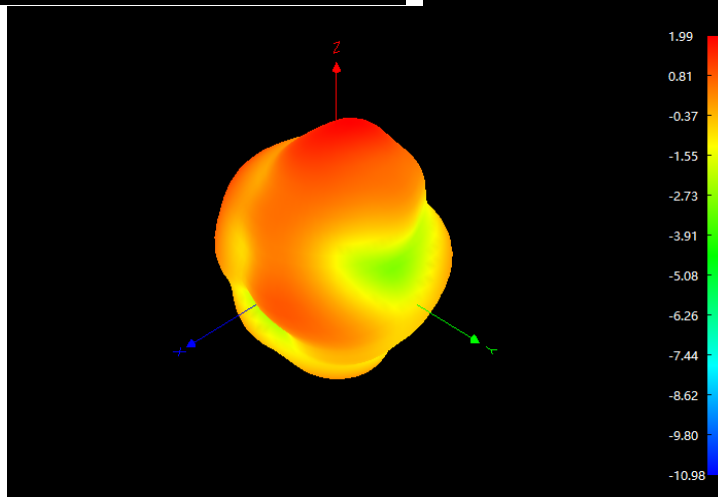
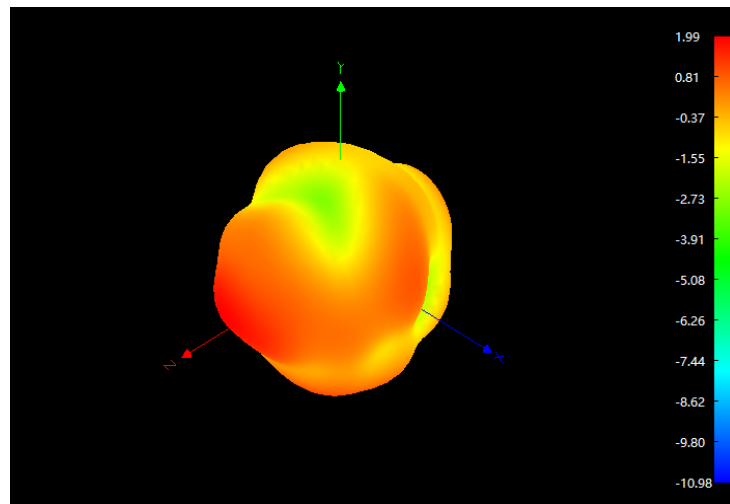
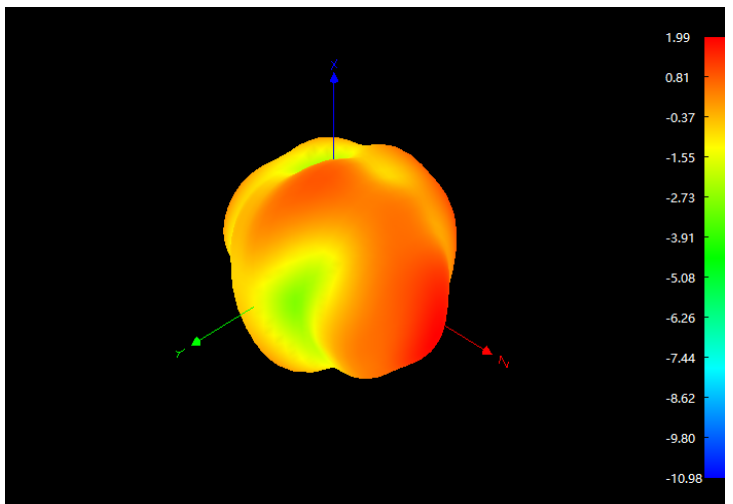
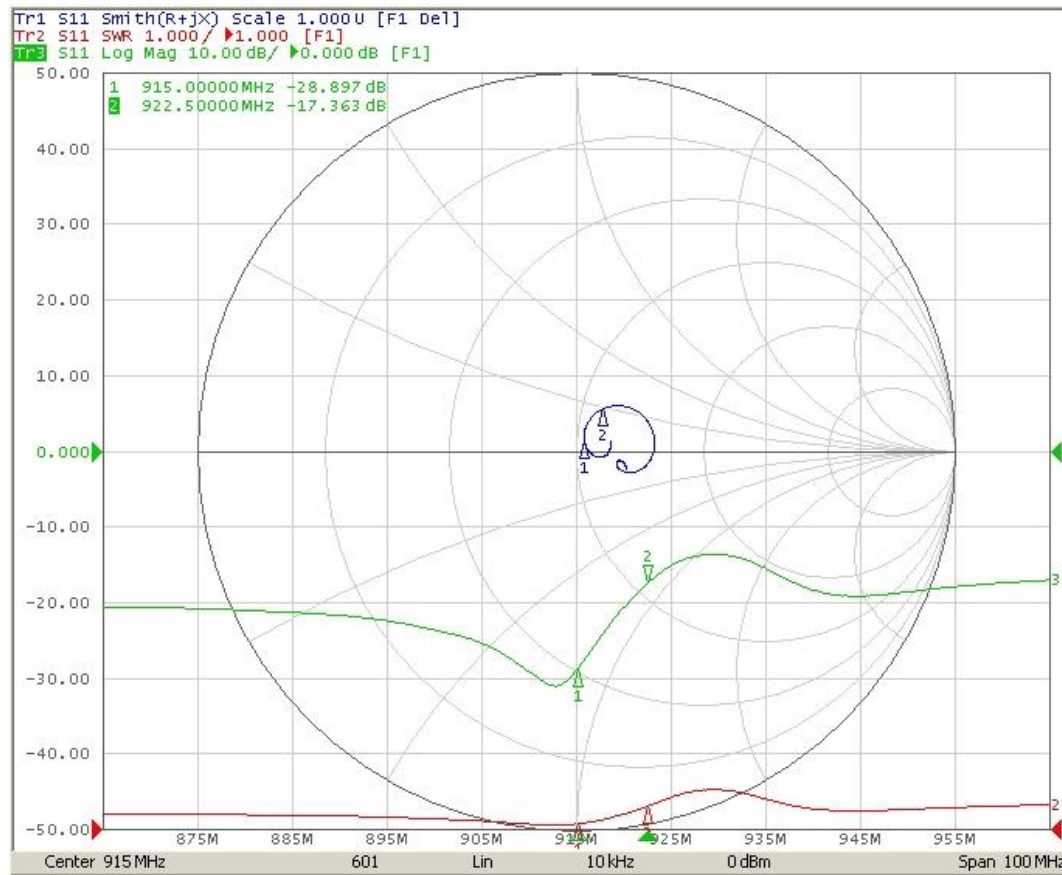
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After coupling



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增益&效率(Gain&Efficiency)

Frequency / MHz	891	894	897	900	903	906	909	912	915	918	921	924	927	930	933	936	939
Efficiency / dB	-12	-12	-10	-8.6	-6.8	-5.6	-4.7	-3.6	-3.4	-4.6	-6.2	-7.3	-8.5	-9.9	-11	-12	-13
Efficiency / %	5.94	6.73	9.02	13.8	20.8	27.7	34.3	44.1	45.4	34.8	24.3	18.5	14.2	10.3	7.76	5.98	4.86

Frequency / MHz	891	894	897	900	903	906	909	912	915	918	921	924	927	930	933	936	939
Gain/ dBi	2.14	2.21	2.42	2.62	2.77	2.62	3.45	3.8	3.99	3.89	2.62	2.61	2.53	2.33	2.16	2.07	2.04