



Shenzhen Shuodian Electronic Technology Co.,Ltd

Specification

for

PPA102S.C1 2.4G Antenna

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1. Specifications

NO .	ITEMS	DETAILS
1	model	/
2	Frequency band	2400-2500MHz
3	VSWR	≤1.3
4	GAIN	3.86 dBi
5	Impedance	50 Ω
6	Antenna type	unipolar
7	Antenna implementation form	1.13 coaxial cable
8	picture	

2. Drawing:

REV	DESCRIPTION	DATE	APPD

GENERAL TOLERANCES	
DIMENSION	ANGLES
.0 ±0.15	.0 ±1°
.00 ±0.10	.00 ±1°
.000 ±0.05	

一代端子同轴线（黑色线）

技术要求：

- 所有单位尺寸为mm。
- IPEX-1代端子，同轴线，浸锡。
- 所交货物必须符合：ROHS要求。
- 请勿实测图纸

科尔维特					
名称					
零件编号					
材料	比例 1:1	颜色	设计	审核	批准
数量	1				

3.Product electrical performance test data

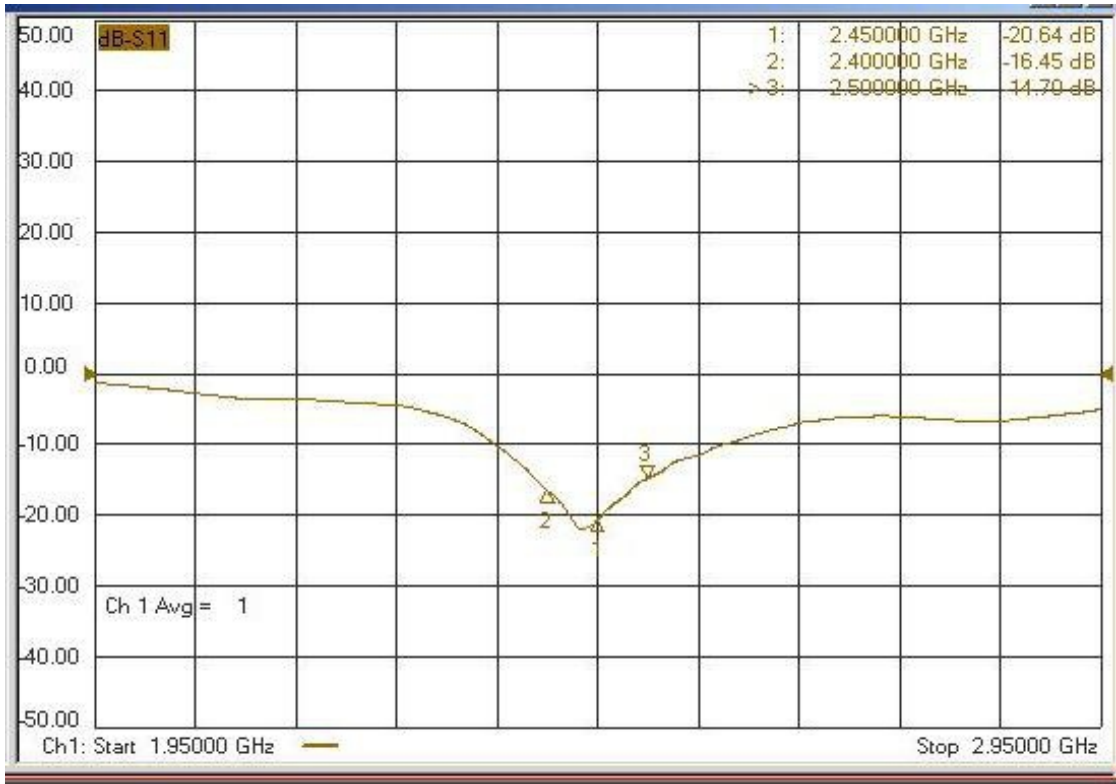
3.1 Testing environment and instrument equipment

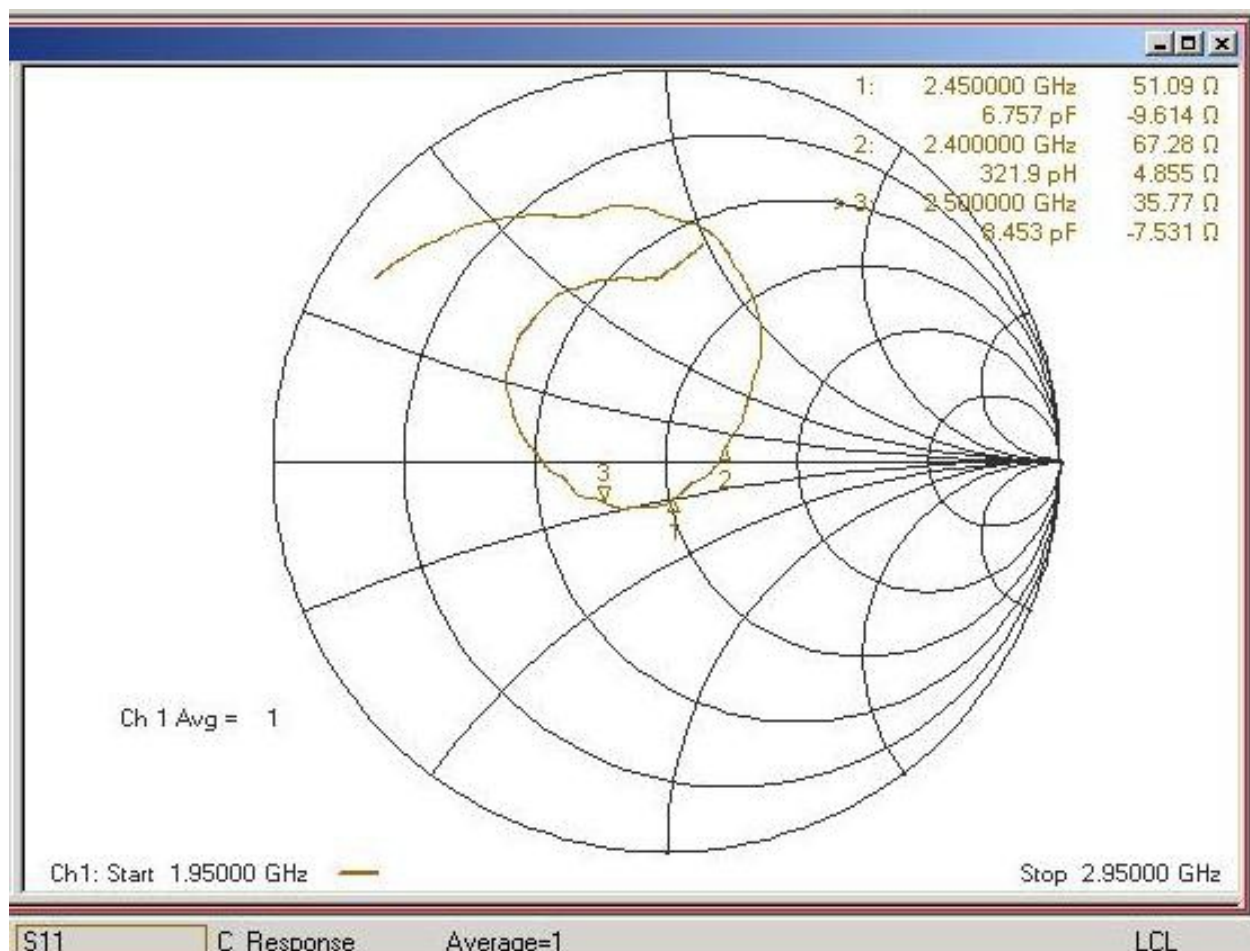
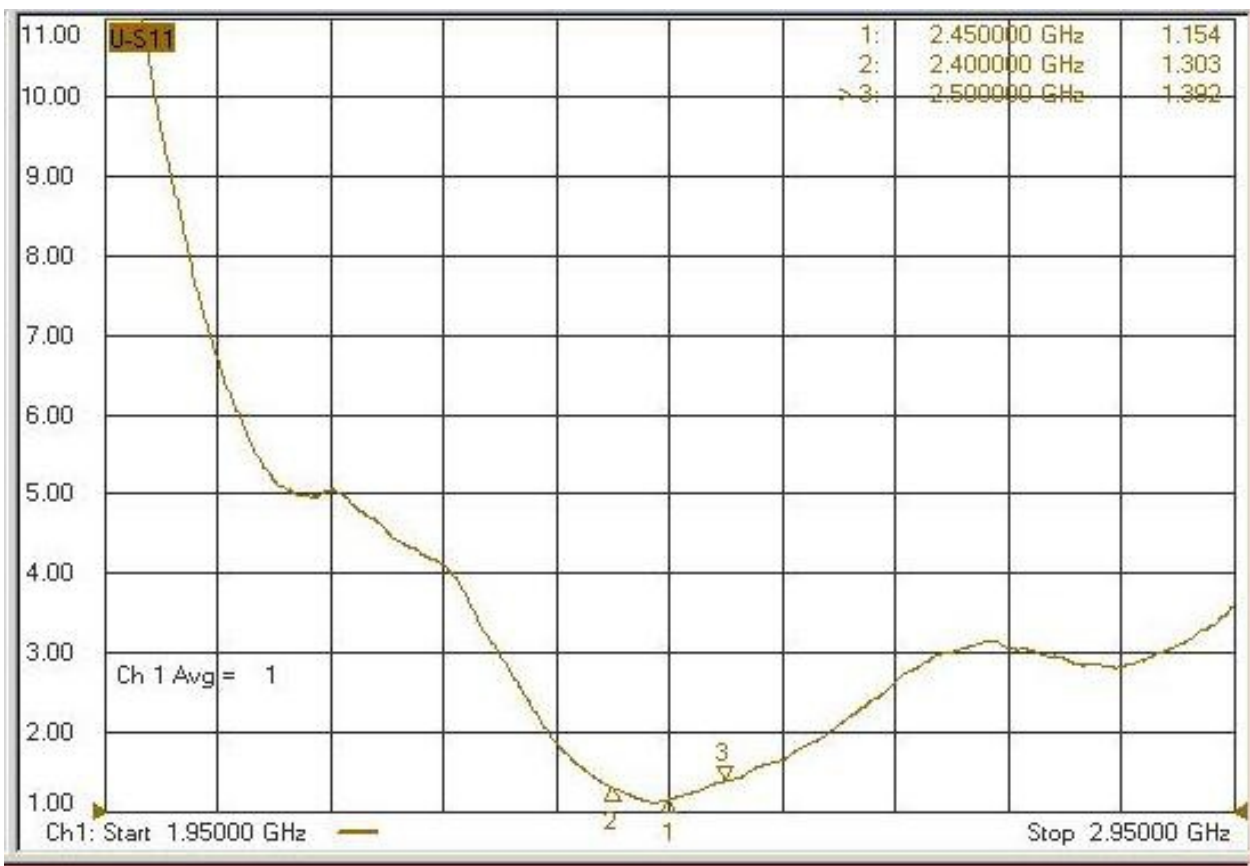
testing environment:	Test equipment:
temperature: 10℃——+30℃	Network analyzer
humidity: ≤80% (+40℃)	Agilent E8358A
atmospheric pressure: 750mmkg±30mmkg	ETS anechoic chamber

3.2 Product electrical performance test data:

S11 picture:

Marker	2450MHz	2400MHz	2500MHz
Returnloss	-20.6	-16.4	-14.7
VSWR	1.1	1.3	1.3





3.3 Gain efficiency and directional pattern of antenna:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.70	2.73	2.71	2.93	3.22	3.40	3.57	3.86	3.79	3.85	4.18
Efficiency (%)	43.5	44.3	44.8	45.1	46.0	46.3	47.1	50.2	49.6	49.7	50.3

2450MHz Direction diagram:

