

Antenna test report

Purpose

This report is to measure the performance of antenna for PCB Antenna, The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

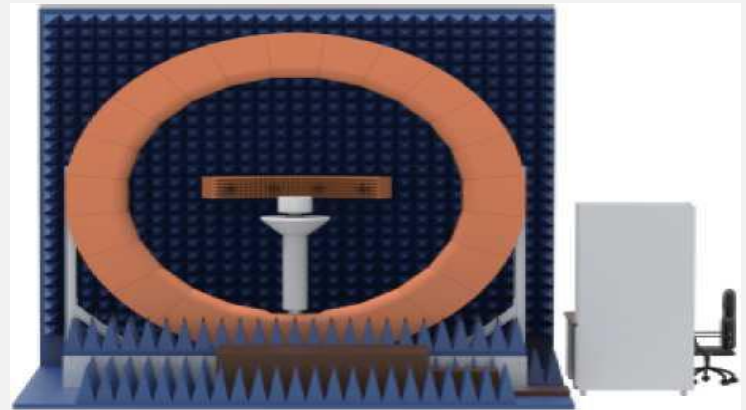
1. est system
- 2.Product Overview Dimension
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 - 3.2 Gain & Efficiency
 - 3.3 2D Pattern

Manufacture: Chipsun Smart Co., Ltd.

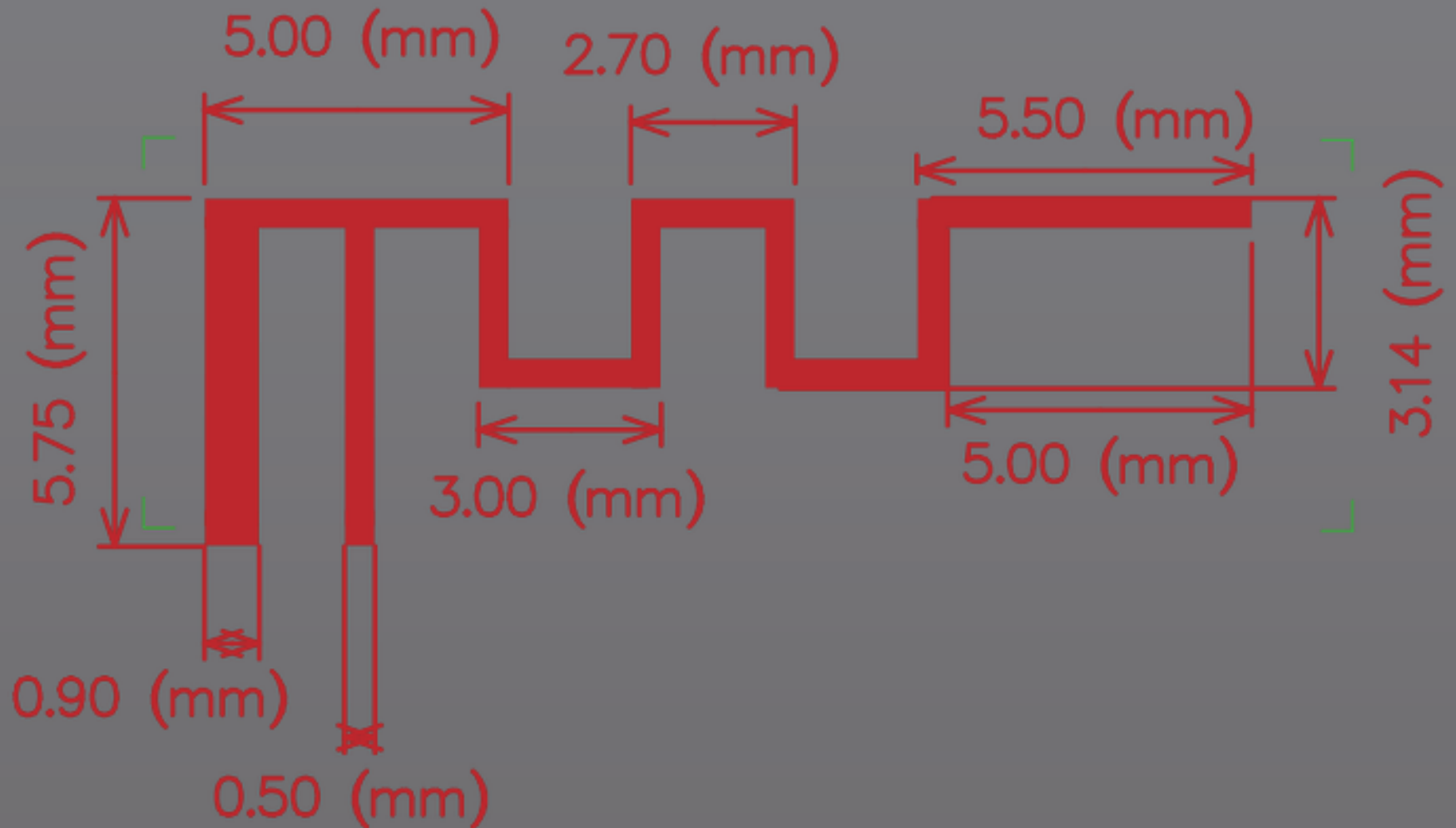
Address: Duchuang Yungu, Third Industrial Zone, Shiyan Subdistrict, Bao'an District, Shenzhen, China

1.TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C

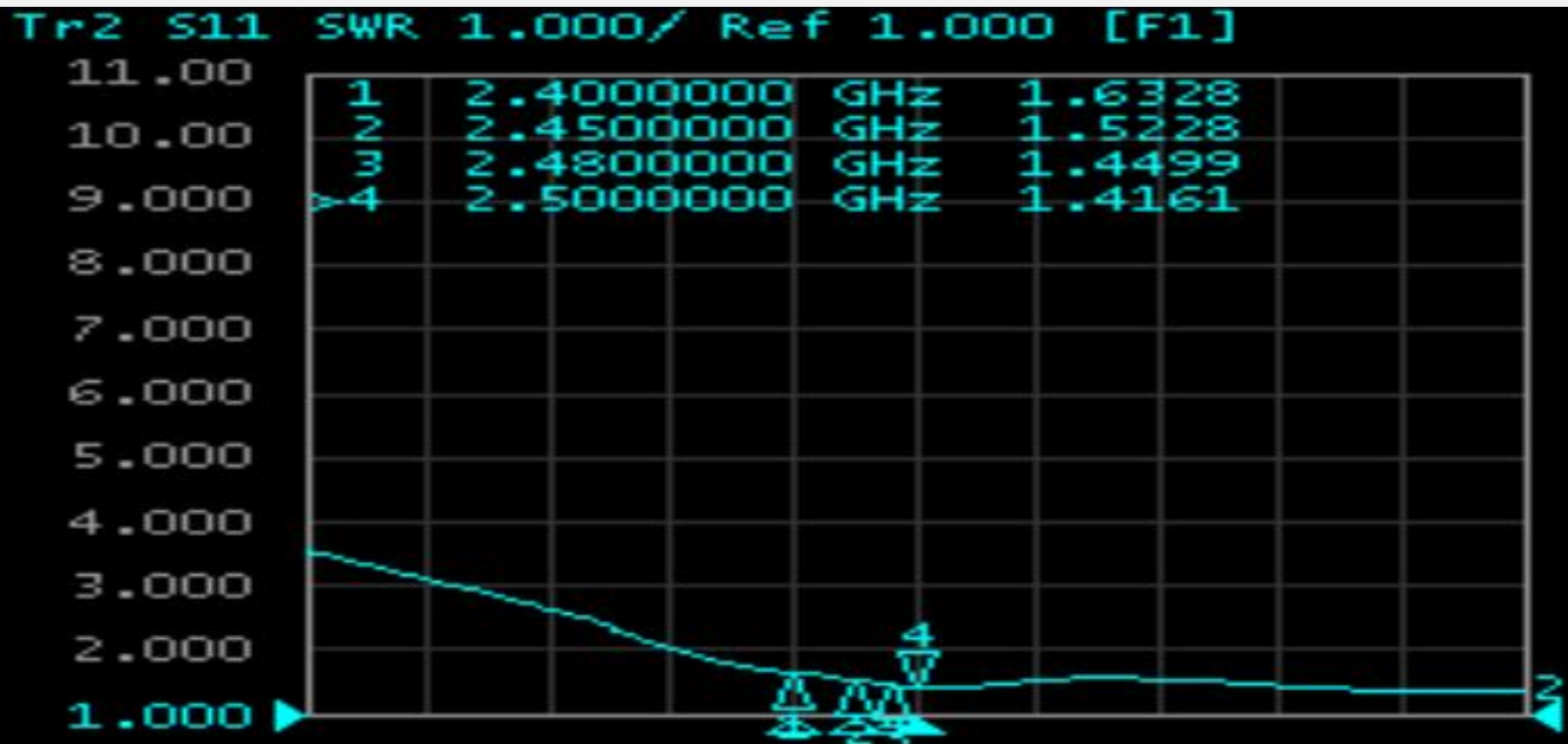


2.Product Overview & Dimension



3.Test Result

3.1 S11 Parameter-VSWR



requency (MHz)	2400	2450	2480	2500
VSWR	1.63	1.52	1.44	1.41

3. Test Result

3.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.38	-13.67	-14.72	-15.27

3.Test Result

3.1 S11 Parameter-Smith

Tr3 S11 Smith (R+jX) Scale 1.000U [F1]

1	2.4000000	GHz	31.332 Ω	-5.9786 Ω	11.092 pF
2	2.4500000	GHz	33.535 Ω	-5.4663 Ω	11.884 pF
3	2.4800000	GHz	35.454 Ω	-5.9950 Ω	10.705 pF
>4	2.5000000	GHz	36.661 Ω	-6.8004 Ω	9.3615 pF



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	31.33	33.53	35.45	36.66

3.Test Result

3.2 Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	55.85	-1.32
2410	57.02	-1.19
2420	56.89	-0.73
2430	56.49	-0.49
2440	57.15	-0.36
2450	59.29	0
2460	61.52	-0.28
2470	59.98	-0.34
2480	60.67	-0.39
2490	60.26	-0.47
2500	59.98	-0.78

3. Test Result

3.3 3D Pattern 2450MHZ — BT ANT (dBi)



0
-0.13
-1.05
-1.96
-2.87
-3.78
-4.69
-5.61
-6.52
-7.43
-8.34
-9.26
-10.2
-11.1
-12
-12.9

