

承认书

APPROVAL SHEET

Customer (客户名称): 深圳市积加创新技术有限公司
C P N (客户料号): /
IOE P/N (物连料号): 366N0030
D a t e (日期): 2020-06-23
R e v . (版本): B
T y p e (类型): 五金天线
B r a n d (商标):
M o d e l (型号): CG1
Manufacture (制造商信息): 深圳物连通信技术有限公司

IOE Approved	Approved (核准)	Checked (审核)	Prepared (承办)
Customer Approved	Approved (核准)	Checked (审核)	Inspected (检验)



深圳物连通信技术有限公司

ShenZhen IOE Communication Technology Co., Ltd.

深圳市光明新区玉律街道田寮社区光明区高新园西区侨德科技园

TEL: 0755-27688188

FAX: 0755-82800006

<http://www.i-ioe.com>

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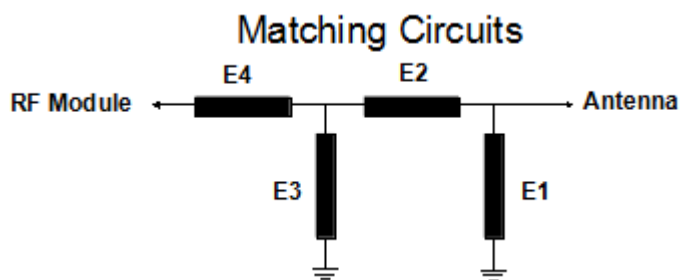
1.Specification

This report mainly provides the measurement conditions of various electric and structural performance parameters for antenna. Follow Picture shows the antenna designed by IOE.
The antenna is constituted by Sheet steel.



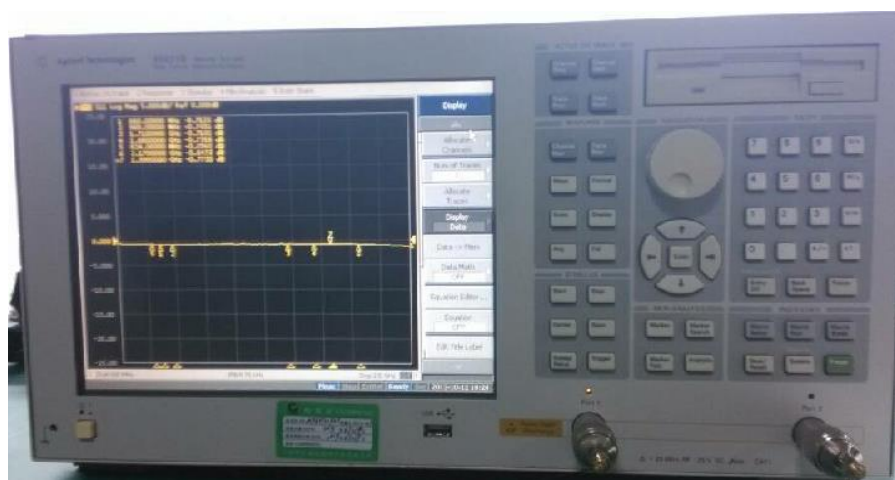
1.1 Electric specifications(Matching circuit diagram)

Element	Value
E1(0402)	1.1nH
E2(0402)	0 欧姆
E3(0402)	NC
E4(0402)	0 欧姆



2. Measurement

Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.



2.1 Return loss/Smith chart/VSWR Measurement

2.1.1 measurement connection

The VSWR measurement devices are connected in sequence: Agilent5071C Network Analyzer → measurement Cable → Customer-providing Devices.

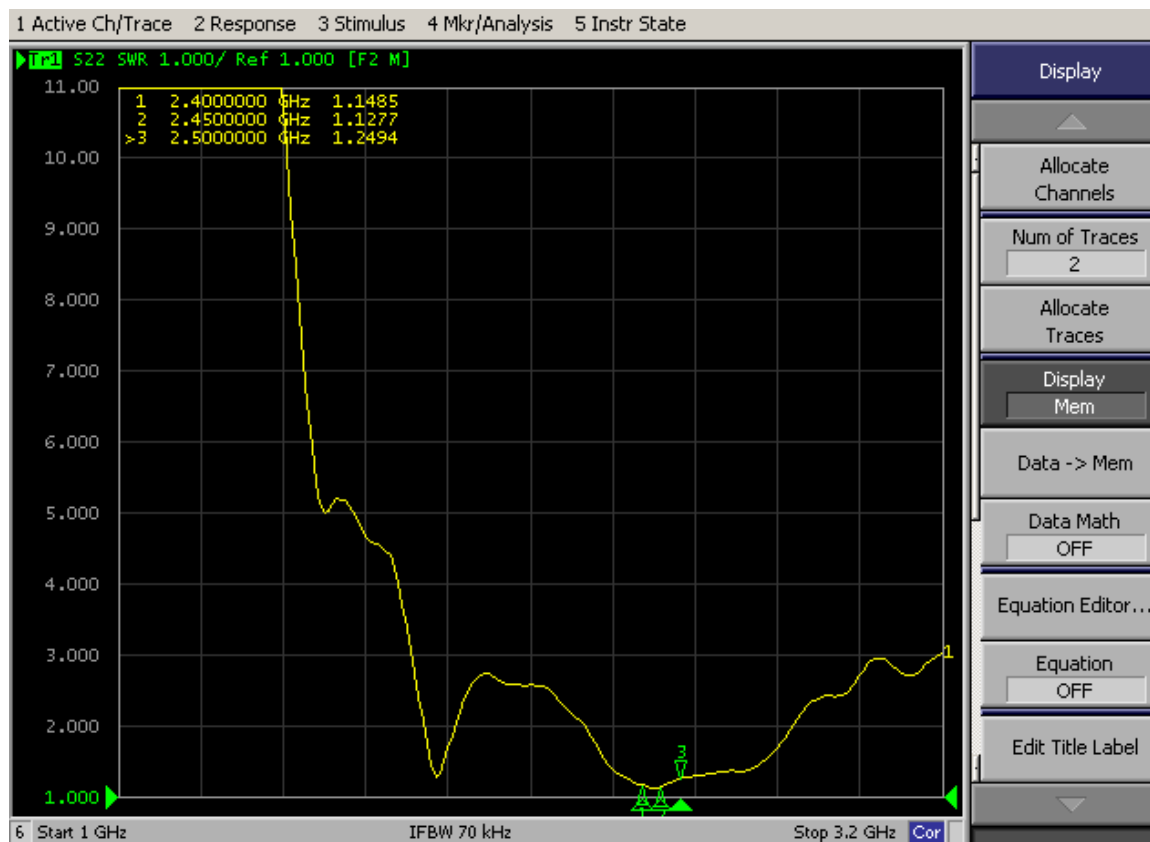
2.2 measurement field

IOE Microwave Anechoic Chamber: measurement frequency ranges from 400MHz to 6GHz and the 50cm diameter spherical quiet zone, the chamber provides less than -110dB reflectivity from 400MHz—6GHz.

2.2.1 measurement apparatus

Agilent E5071C Network Analyzer, Dipole antenna, TemRadio antenna measurement system, printer etc.

2.3 Return VSWR test result

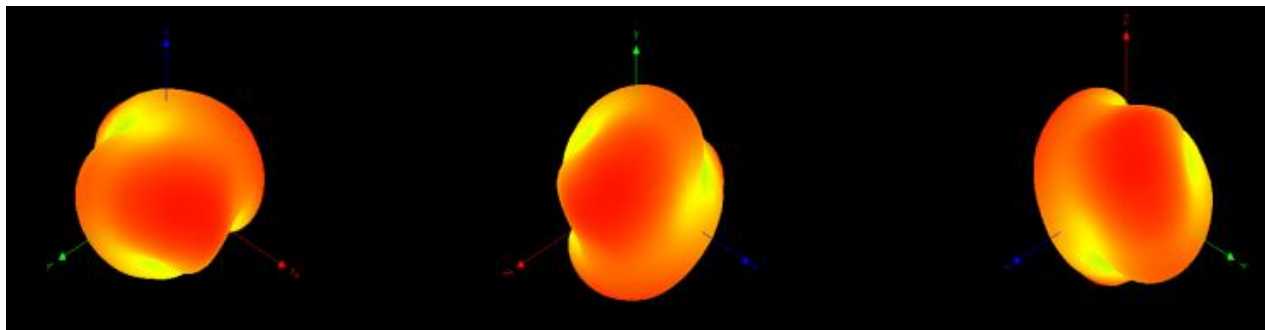


2.4 The test result of total efficiency and total gain

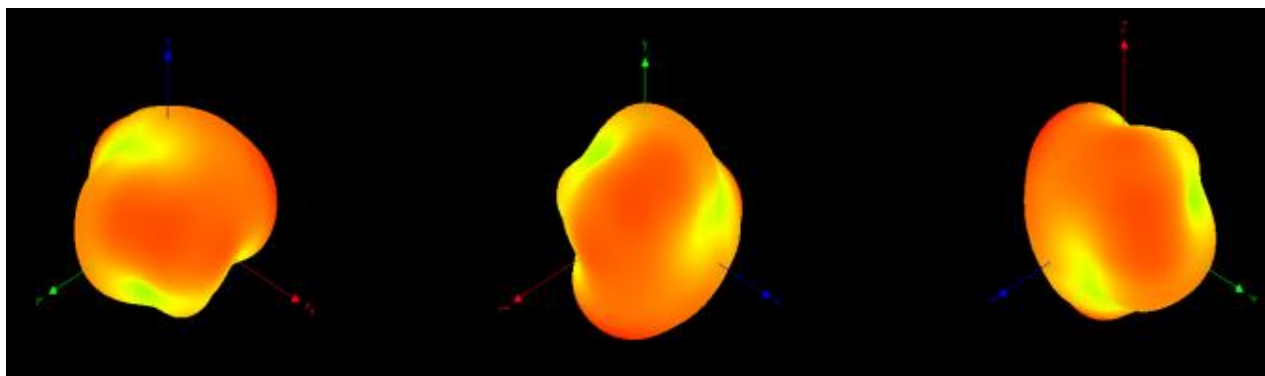
Frequency/MHz	Efficiency (%)	Gain (dB)
2400MHz	54.27	2.35
2410MHz	52.09	2.23
2420MHz	53.97	1.99
2430MHz	53.68	1.45
2440MHz	50.12	1.26
2450MHz	48.61	1.18
2460MHz	50.53	1.34
2470MHz	53.10	1.62
2480MHz	54.27	2.05
2490MHz	49.16	1.69
2500MHz	52.37	2.11

2.5 The antenna radiation pattern(3D)

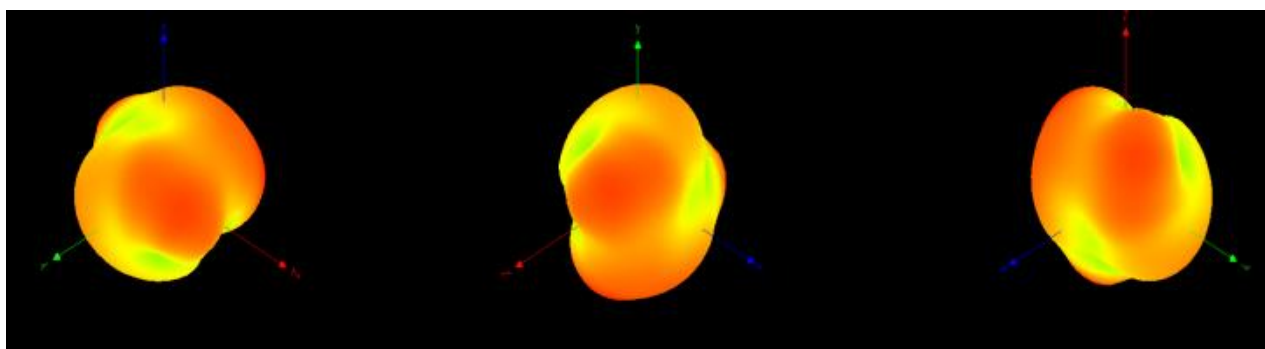
2400MHz



2450MHz



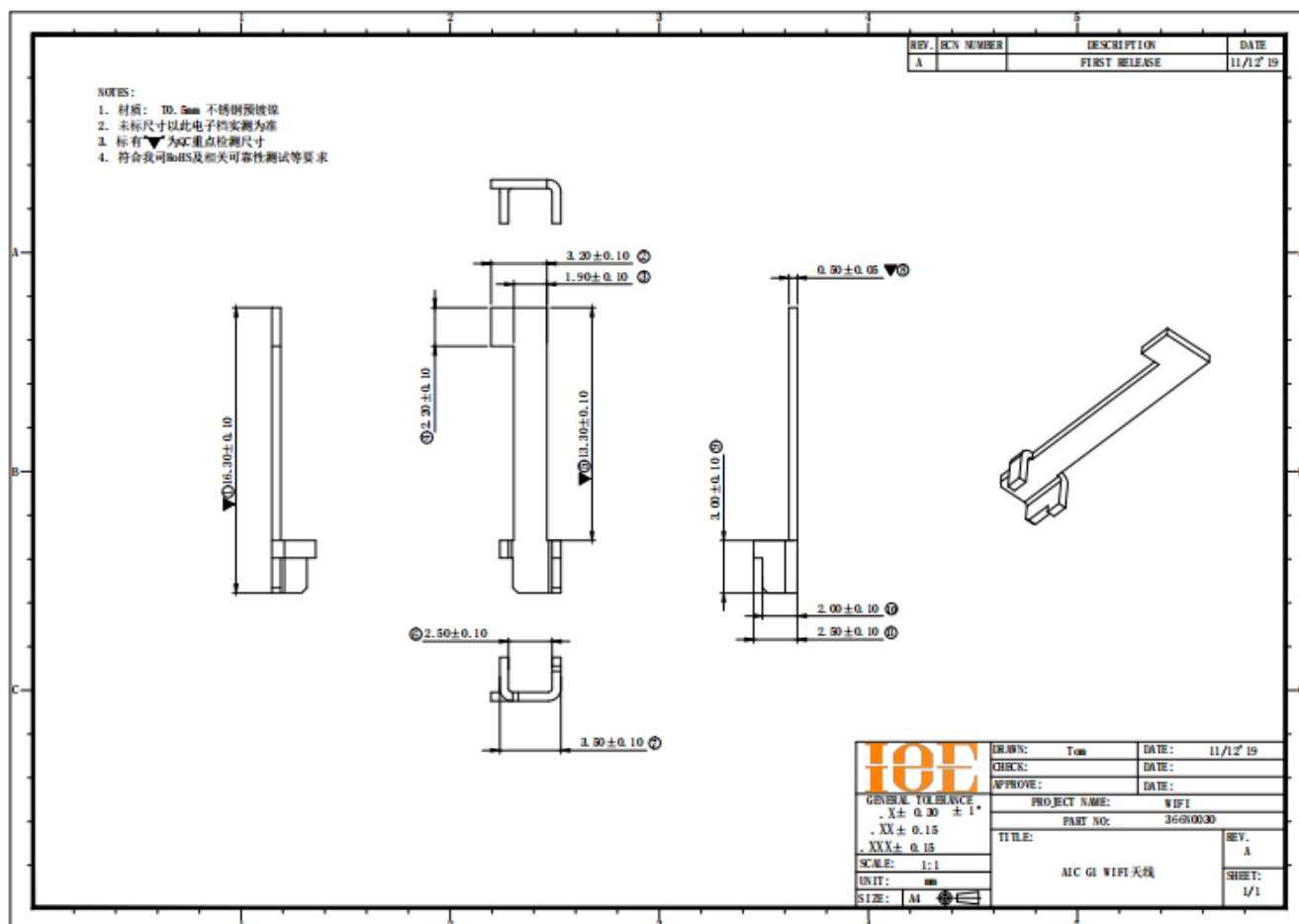
2500MHz



3. Summary

This antenna is designed on the base of client's require and the electrical parameters and structural performances have reached the standard, please confirm us your satisfaction.

4 .Product drawing



5 .Dimension report

IOE														
DIMENSION MEASUREMENT REPORT														
P/N: 366N0030		REV: A		Sample Q'ty: 5PCS		TEST DATE: 2020/2/24								
Measuring Tool: A:Vernier caliper B:Optical image measuring machine C:Microscope D:Ruler E:Jig F:Height gauge														
Drawing Specification				Measurement results (unit:mm)						% Tolerance		STATUS		
DIM. DES.	Dimension	+Tol	-Tol	1	2	3	4	5	Measuring Tool	Upper	Lower	High	Low	Remarks
1	16.30	0.10	0.10	16.31	16.33	16.32	16.31	16.32	A	30%	0%			OK
2	13.30	0.10	0.10	13.32	13.33	13.32	13.32	13.34	A	40%	0%			OK
3	0.50	0.05	0.05	0.51	0.50	0.51	0.50	0.50	A	20%	0%			OK
4														
5														
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Approved by: JACK				Checked by: ROY						Tested by: TOM				
管制编号: IOE-QF-QE-003-A														

6 .ROHS list

深圳物连通信技术有限公司
SHENZHEN IOE COMMUNICATION TECHNOLOGY CO., LTD.

ROHS 清单

产品料号 P/N	规格描述 Description	部件名称 Part name	物料各构成名称 Material by name	测试报告里对应物质测试结果										检测报告编号 Test report No	有效日期 effective date
				Pb	Cd	Hg	Cr(VI)	PBB	PBDE	DBP	BBP	DEHP	DIBP		
366N0030	AIC G1 WIFI天线 SUS304, 1/4H, T=0.5mm 预镀银	五金件	不锈钢	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	CANEC1903229404	2020.03.12

拟制: Tom

审核: Roy

批准: Jack

管制编号: IOE-QF-ME-004-A

7 .Reliability test report



深圳物连通信技术有限公司
SHENZHEN IOE COMMUNICATION TECHNOLOGY CO., LTD.

可靠性测试报告											
客户	积加创新	项目名称	五金天线	成品料号	366N0030	规格描述	A1C G1 WIFI天线 SUS304, 1/4H, T=0.5mm 预镀镍			测试日期	2020/2/19
可靠性测试项目及要求						测试结果					备注
项目	测试项目	测试仪器	测试条件		判定标准	1	2	3	4	5	
1	盐雾测试	盐雾实验机	将天线放入 35℃±2℃ 的盐务实验机中, 湿度>85%, PH值在 6.5-7.2 之间, 用 5%±1% 的 NaCl 溶液连续 48 小时喷雾, 测试完后拿出产品用清水清洗后检查外观		天线表面无锈蚀、变色、镀层脱落等现象	OK	OK	OK	OK	OK	
试验结果判定		PASS									

审批: JACK

测试人: TOM

制作日期: 2020/02/24

管制编号: IOE-QF-ME-009-A