



深圳锐锋电子技术有限公司

SPECIFICATION FOR APPROVAL

客 户:

CUSTOMER:

Actions Microelectronics Co., Ltd.

客户料号:

CUSTOMER PART No.:

ANT-524-DPD005

型 号:

RF10005

Model Number:

品名/规格:

Item description/
度Specification:External dual-frequency antenna Single pipe and double feeder
(2.4G) 60mm+ (5.8G) 60mm SMA/IPEX

本厂料号:

PART No.:

C009-10005-A

制造地址:

Production
address:Floor 4, Building B5, Xinfu Industrial Zone, Fuyong Heping
Chongqing Road, Bao'an District, Shenzhen City, Guangdong
Province_

日 期:

DATE:

2020. 12. 24

出样签章

核准 APPROVED BY	确认 CHECKED BY	制作 DRAWED BY

客户承认签章

核准 APPROVED BY	确认 CHECKED BY	检查 TESTED BY

1. Contents 项目表

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2. Revision history变更履历

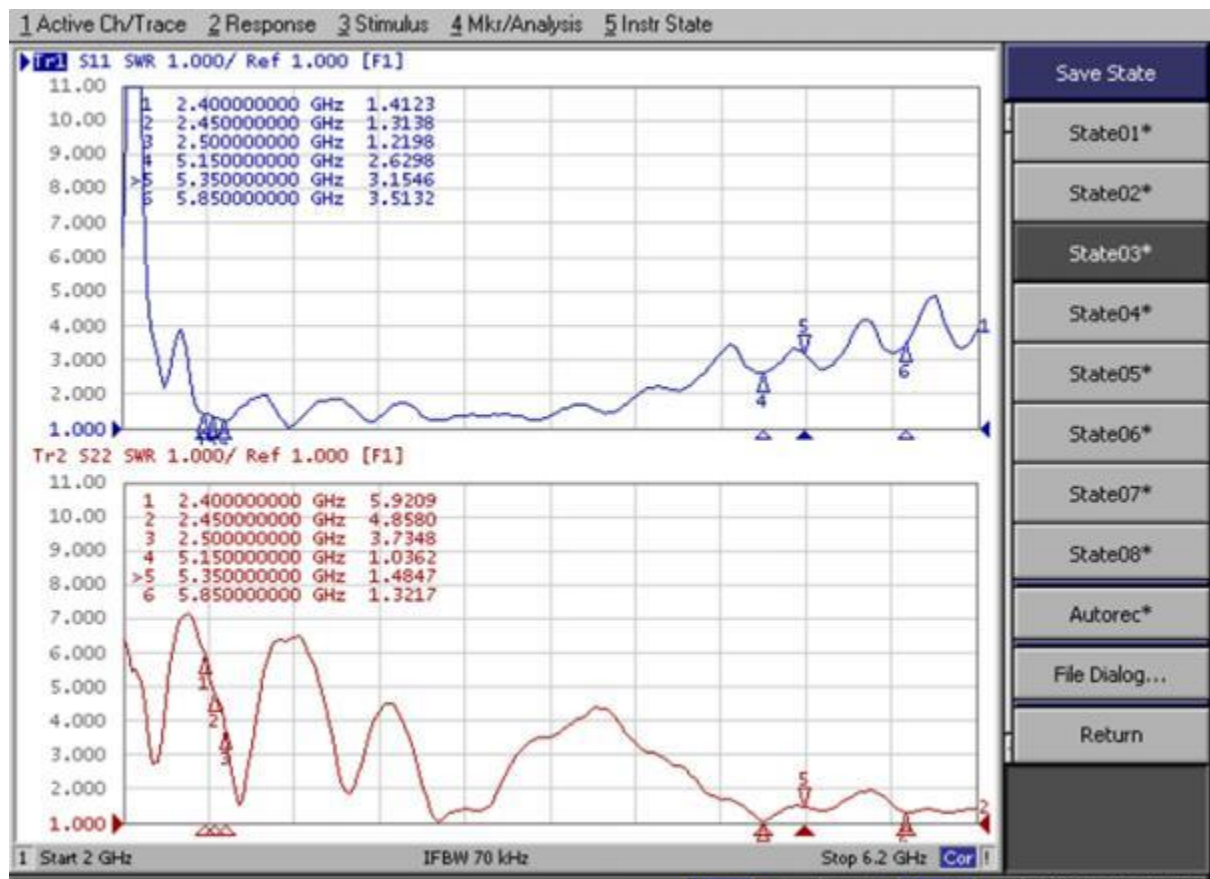
Revision 版本	Date 日期	Change the content 变更内容
X0	2020.12.14	

3. 规格表 Specification

A. Electrical Properties	
Frequency Rang 频段范围	2.40-2.50GHz 5.15-5.85GHz
Impedance 特性阻抗	50Ω Nominal
VSWR 电压驻波比	2.0Max.
Gain(peak)增益（峰值）	2.40-2.50GHz: 3dBi 5.15-5.85GHz: 5dBi
Radiation 辐射方式	Omni-Directional/全向
Polarization 极化方式	Linear Vertical/垂直
B. Physical Properties	
Connector Type 连接方式	一代 IPEX
Cable 线材	Φ1.13mm
Antenna Radiator 天线振子体	PCB FR 4
Antenna Plastic 天线塑胶	Body:TPE Hinge:PC+PBT Holder:PC+PBT
C. Environmental	
Storage Temp 存储环境范围	-40℃~+85℃
Operating Temp 工作环境	-10℃~+65℃
Storage humidity 存储湿度	95%
Working humidity 工作湿度	5%~95%

4. 电性测试报告Electrical Test Report

4.1 网络分析仪测试报告Network analyzer test report



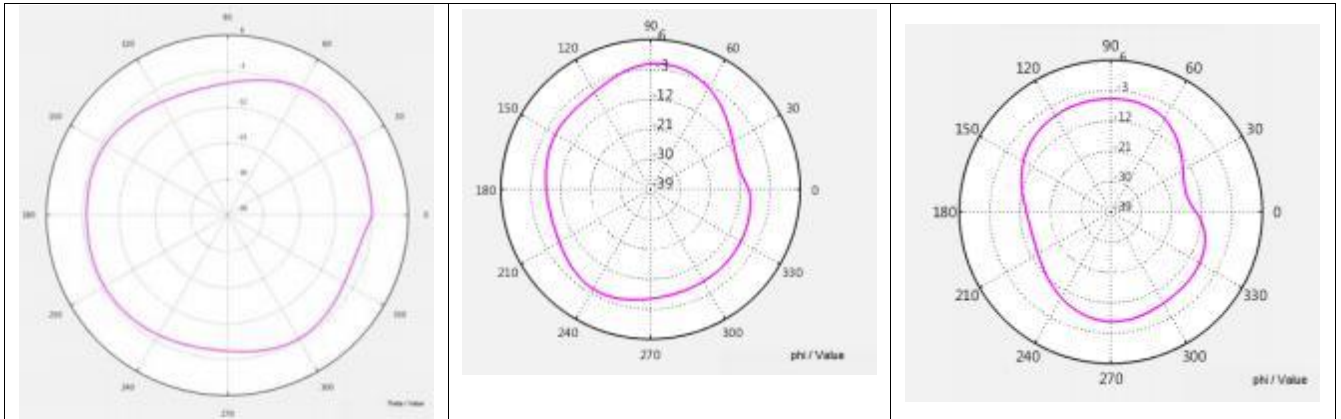
4.2 暗室无源测试数据Dark room passive test data

Frequency	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz
Efficiency (%)	63.7	59.57	62.66	60.12	60.95	61.94	65.46	66.37	60.53	61.8	60.81
Gain (dBi)	2.75	2.61	2.73	2.75	2.99	2.18	2.56	3	2.48	2.69	2.71

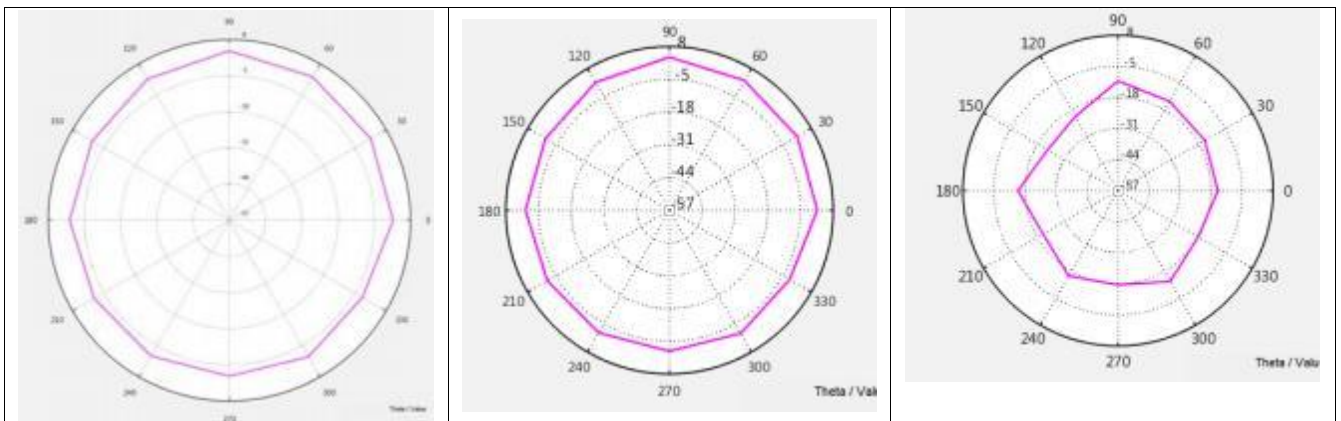
Frequency	5.15GHz	5.25GHz	5.35GHz	5.45GHz	5.55GHz	5.65GHz	5.75GHz	5.85GHz
Efficiency (%)	54.45	46.67	52.84	51.05	48.98	43.85	51.17	50.69
Gain (dBi)	5	4.63	4.53	3.43	2.91	2.28	3.07	2.59

4.3 暗室2D、3DRaditation Pattern

2. 45G

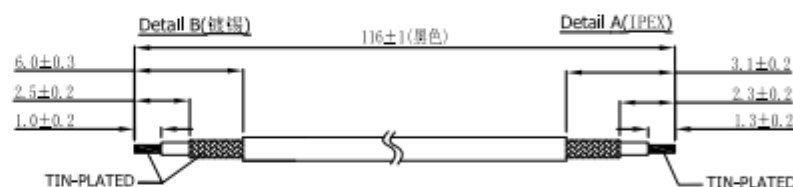
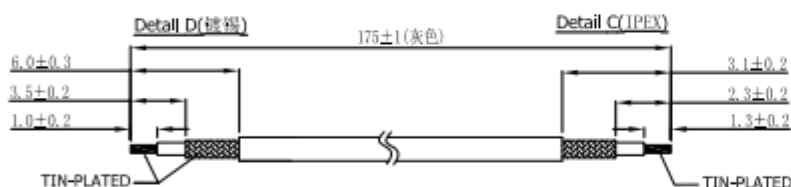
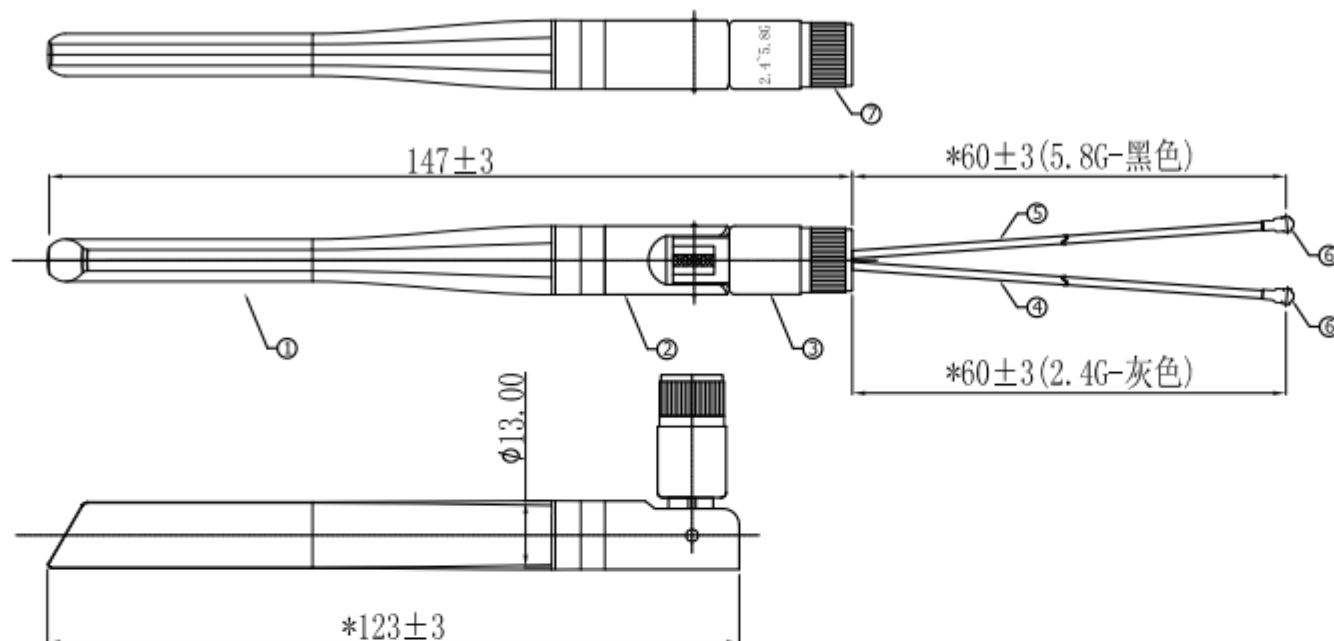


5. 5G



工程图

SIGN	DATE	DESCRIPTION	APPROVER
X0	20.11.19	New drawing	JOHN.LIU



9	—	泡棉	EVA	黑色	1
8	—	PCB板	FR-4	单面覆铜 OSP 绿油 PCB019	1
7	—	SMA公头	—	黑色POM外壳	1
6	P20-C3002-R	一代IPEX	BRASS	镀金	2
5	P10-C2002-R	$\phi 1.13$ mm CABLE	镀锡铜	50欧姆 黑色 ROHS	1
4	P10-C2001-R	$\phi 1.13$ mm CABLE	镀锡铜	50欧姆 灰色 ROHS	1
3	P50-C3003-R	下固定座	PC+PBT	黑色 WHITE CD-13 免打铆钉	1
2	P50-C2003-R	上固定座	PC+PBT	黑色 CD-384 免打铆钉	1
1	—	杆套	TPE	黑色 刀锋 ROHS	1
No.	Part Number	Name	Material	Describe	Q'ty

NOTE:
 1. 带"*"为重点管制尺寸;
 2. 电测:
 Frequency Range: 2.4~2.5GHz
 5.15~5.85GHz
 3. 工作环境: $-10^{\circ}\text{C} \sim +65^{\circ}\text{C}$;
 4. 符合RoHS 2.0环保要求;
 5. IPEX方向管制:
 100mm $\pm$ 90度;
 200mm $\pm$ 135度;
 200mm以上不管控;

TITLE:	双频双馈天线	深圳锐锋电子科技有限公司						
P/N:	—							
CUSTOMER:	—							
DRAW NO.:	C009-10005-A			APPROVED				
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED				CHECKED				
一般公差 TOLERANCE	.XXX	±0.1	XX	±5	SHEET: 1/1	SCALE: NONE	DRAWN	JOHN.LIU
	.XX	±0.5						
	X	±1.0						
	X.	±3.0						
		UNIT: mm		REV:X0				