

SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : SUNSEA IOT
CS P/N : SX0272000053
PART NAME : WiFi Antenna 2.4G&5.8G
DEVE NO. : AUK02016B-2.4G&5.8G
PART NO. : B92240-90
DATE : Sep 7, 2021

Customer Approval			
RF Engineer	ME Engineer	R&D Manger	PRODUCT Manger
AUDEN COMMUNICATIONS&MULTIMEDIA TECHNO (KUNSHAN) CO. LTD			
RF Engineer	ME Engineer	R&D Manger	PRODUCT Manger
Jie.lv	Hongxue.che	Weifan.fan	Jianjun.mao

Head Quarter

AUDEN COMMUNICATIONS&MULTIMEDIA
 TECHNO (KUNSHAN) CO.LTD
 NO.15 YING-BIN ROAD, LUYANG TOWN, KUNSHAN ,
 JIANGSU CHINA

Branch Office

AUDEN COMMUNICATIONS&MULTIMEDIA
 TECHNO (KUNSHAN) CO.LTD BRANCH OFFICE OF XI'AN

No. 10 Tangyannan Road, High-tech Zone, Xi'an City,
 Shaanxi Province-Emur106, Zhongxing Industrial Park

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

INDEX

- 一、 Cover
- 二、 Index
- 三、 The Basic Parameters
- 四、 RF Performance Test Report
- 五、 Product Drawing
- 六、 Packing

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

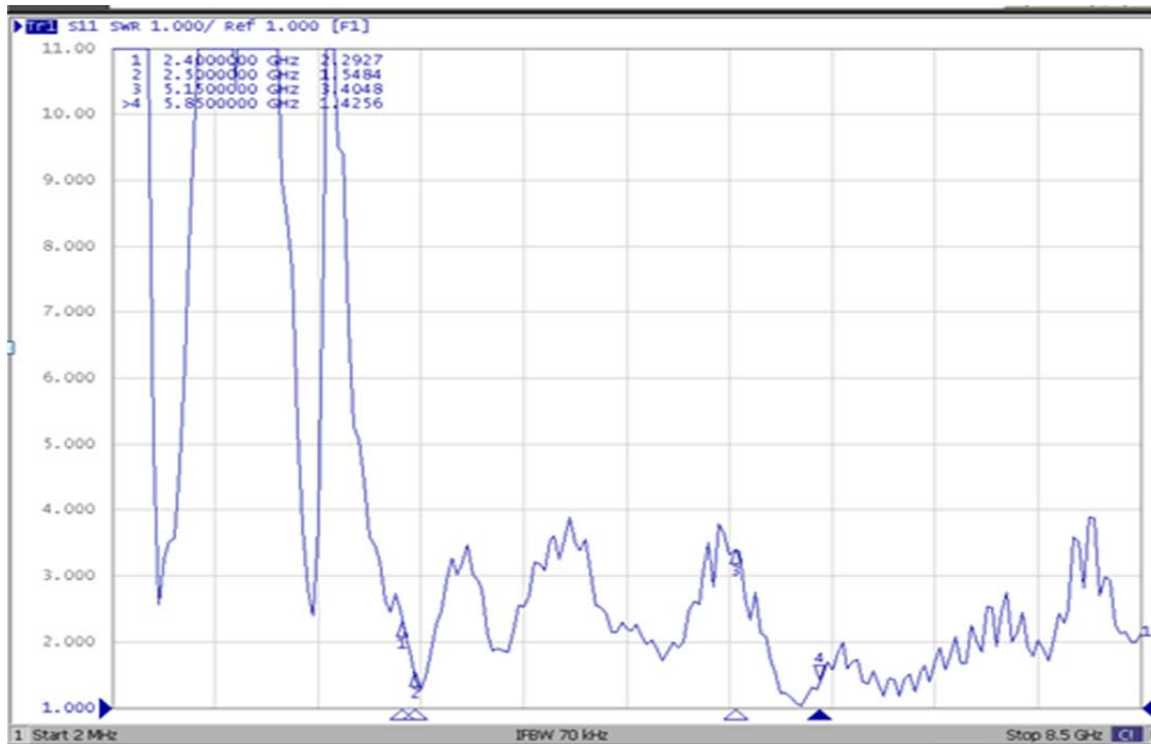
The Basic Parameters

Item	Specifications
Structure	Rubber Stick-SMA-J
Frequency	2400-2500MHz & 5000-5865MHz
V. S. W. R	≤ 2.0
Gain	≤ 5.0
Size	207 \pm 3mm*13.5mm
Impedance	50 Ω
connector	SMA-J
Operation temperature	-40°C to 85°C
Storage temperature	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH
Product picture	

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

RF Performance Test Report



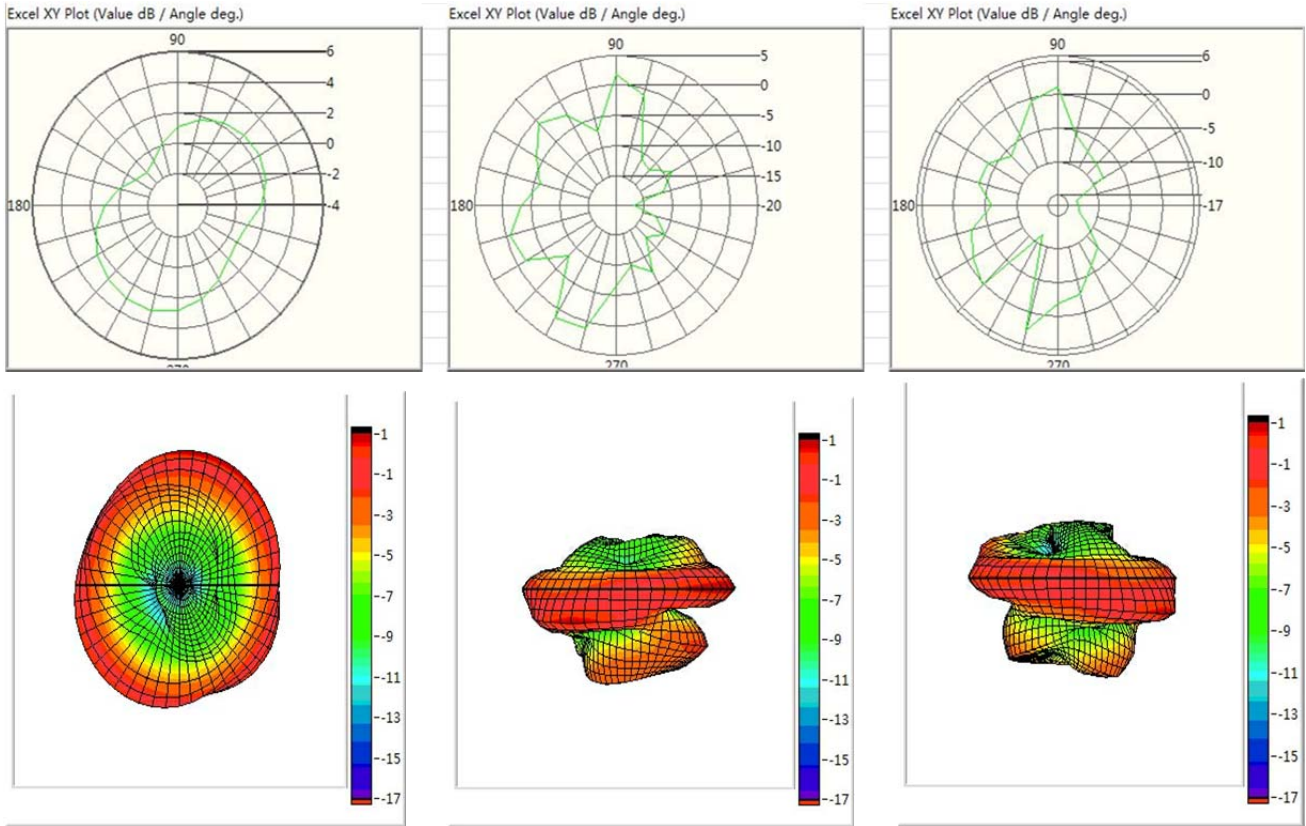
Frequency	Efficiency Total (%)	Gain Total (dBi)	Frequency	Efficiency Total (%)	Gain Total (dBi)
2.4G	56.62	2.25	5.15G	71.09	2.65
2.41G	58.88	2.57	5.2G	65.98	2.45
2.42G	61.38	2.87	5.25G	64.2	2.33
2.43G	60.53	2.83	5.3G	61.8	1.78
2.44G	62.37	2.80	5.35G	57.41	1.39
2.45G	69.34	2.81	5.4G	62.37	2.15
2.46G	68.87	2.75	5.45G	66.07	2.84
2.47G	69.66	2.73	5.5G	61.38	2.77
2.48G	72.95	2.98	5.55G	52.72	2.01
2.49G	72.44	2.73	5.6G	50.58	1.83
2.5G	72.28	2.68	5.65G	60.47	2.9
			5.7G	64.42	3.2
			5.75G	62.66	3.1
			5.8G	73.62	3.57
			5.85G	91.83	4.32

CONFIDENTIAL

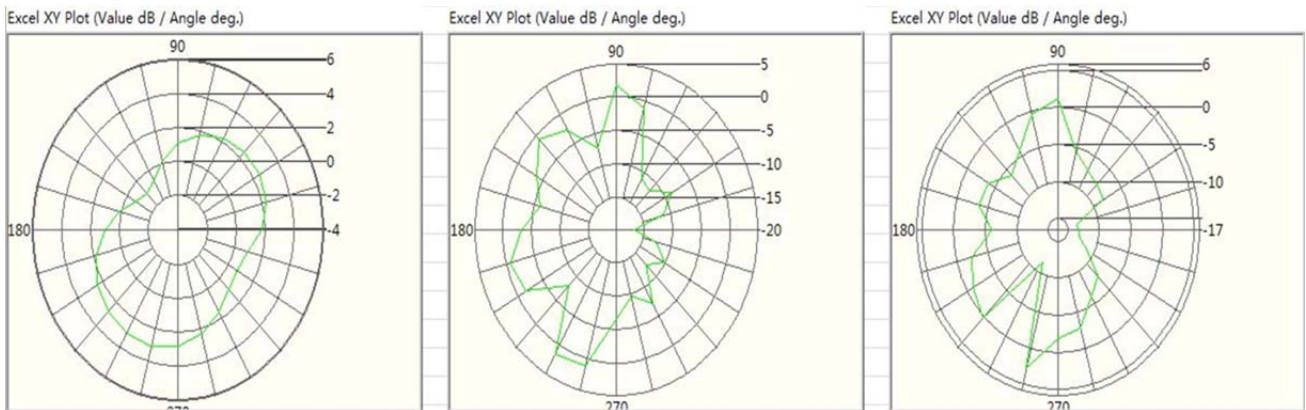
This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

2D report

2. 4G 2D&3D

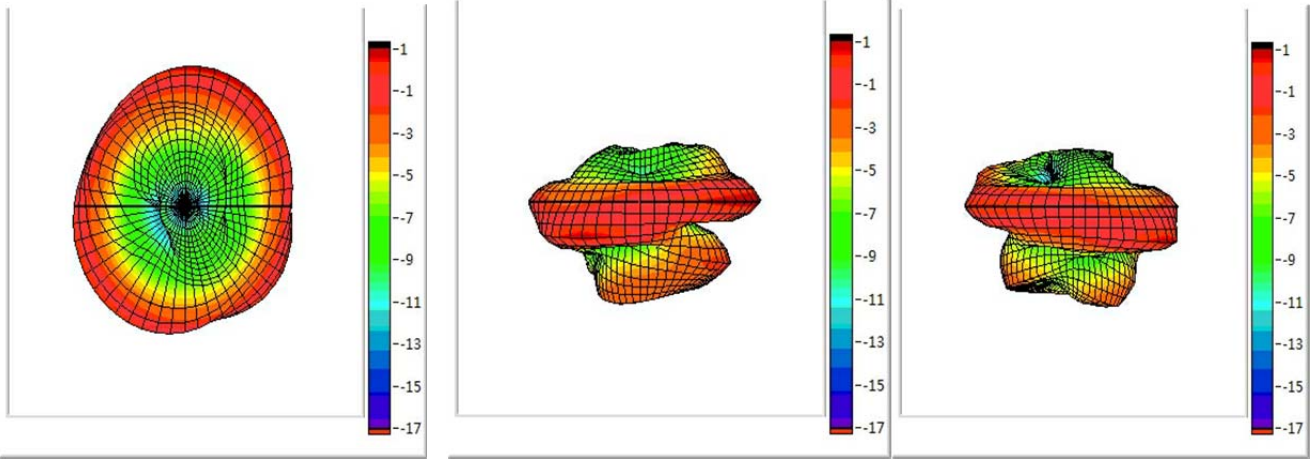


2. 45G 2D&3D

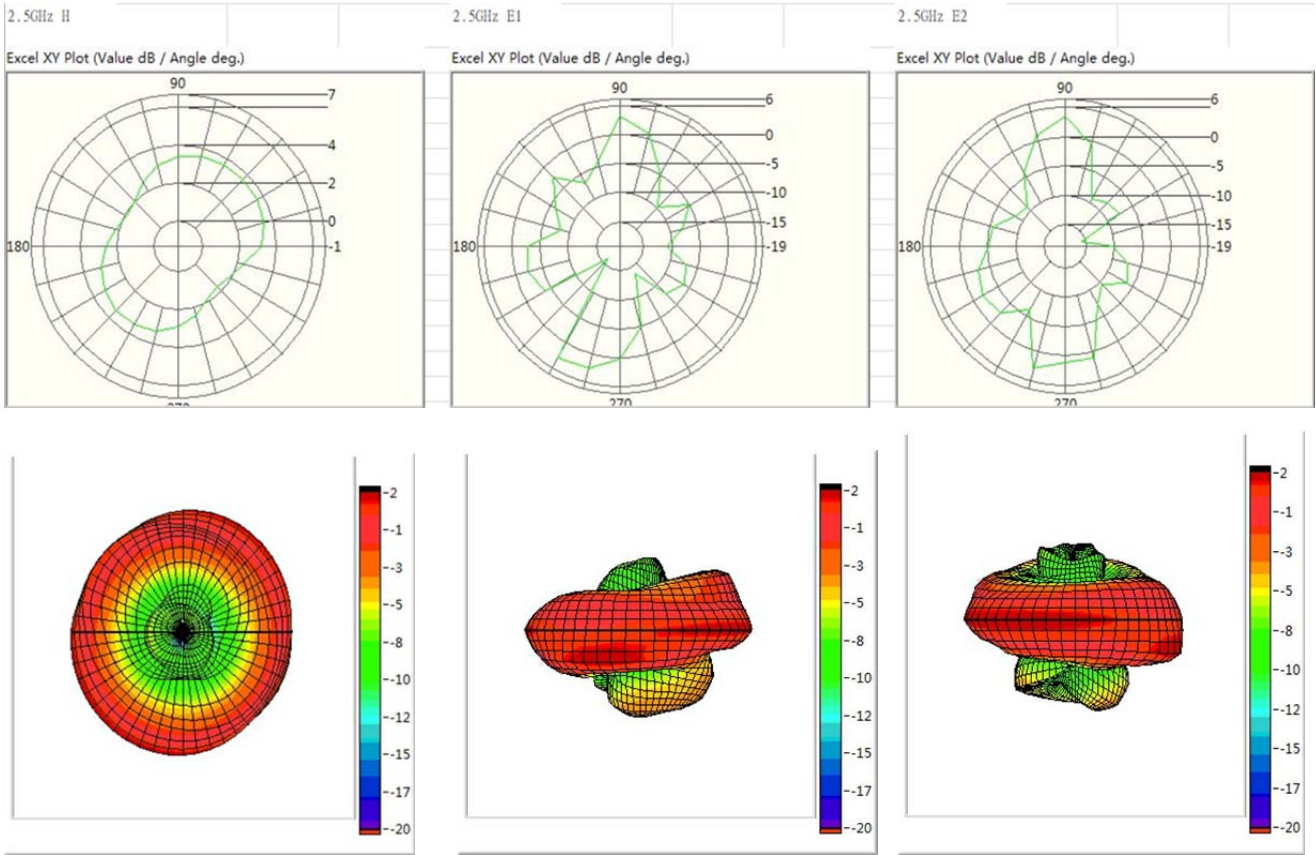


CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



2. 5G 2D&3D

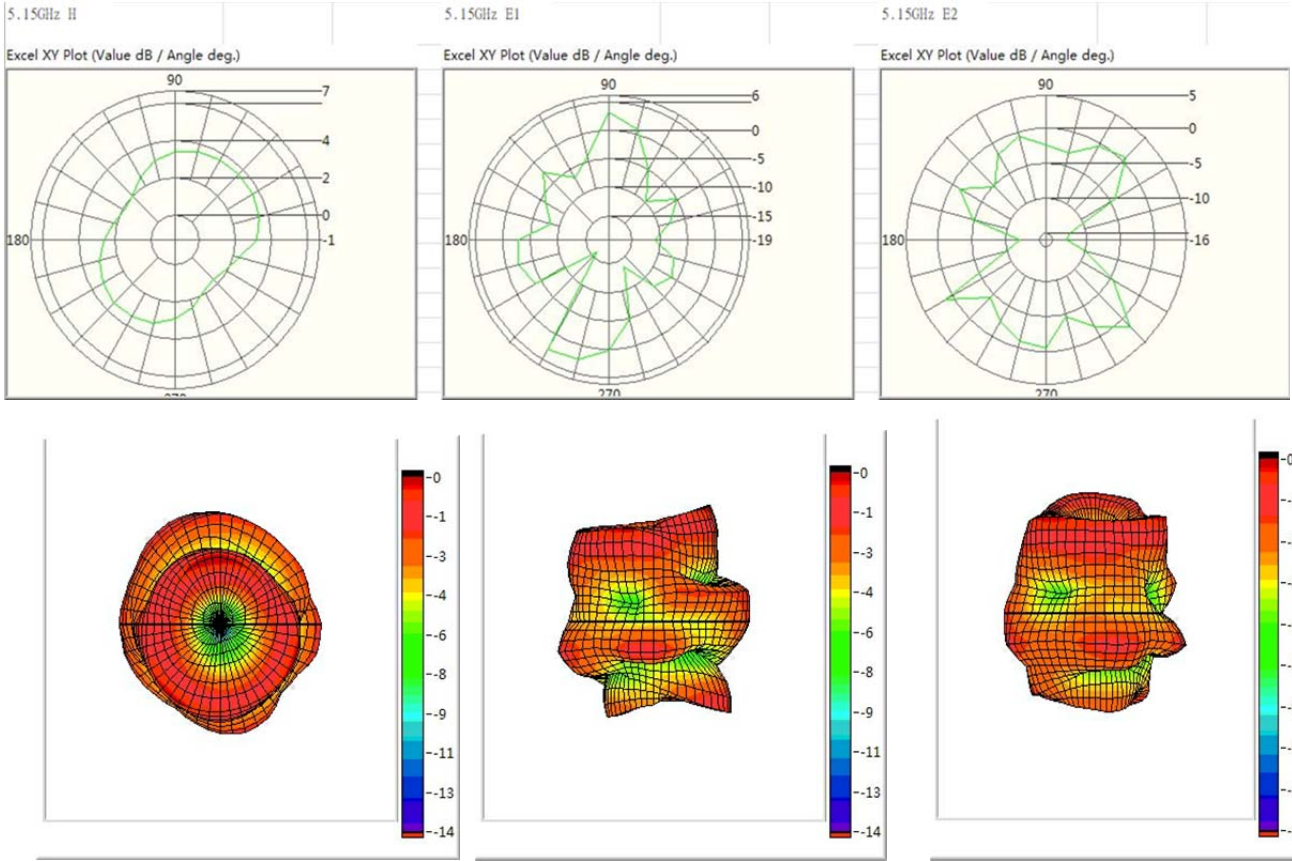


CONFIDENTIAL

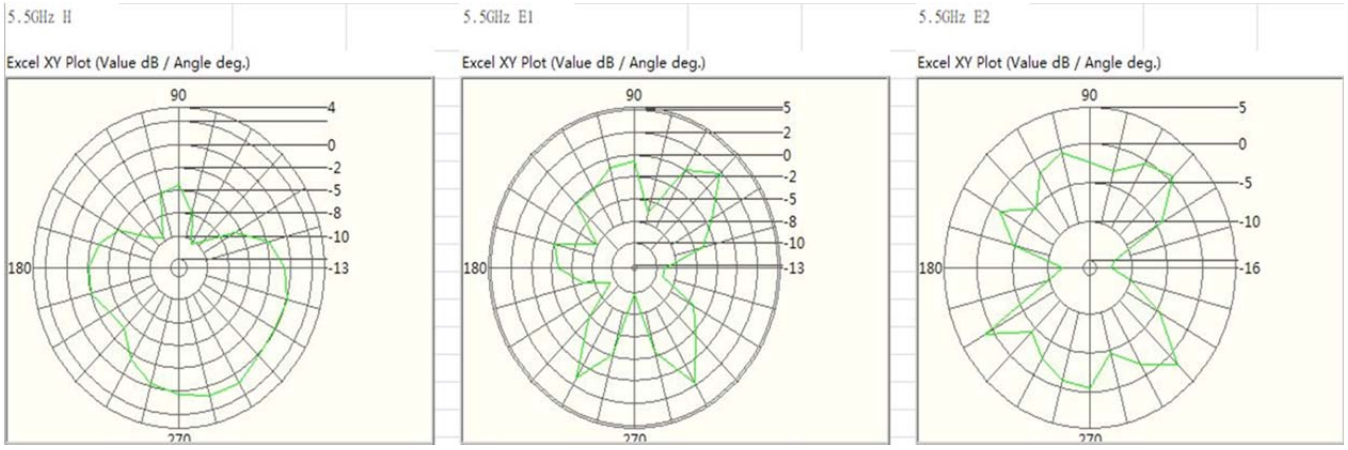
This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

No perfect status, Always seek for better!

5. 15G 2D&3D



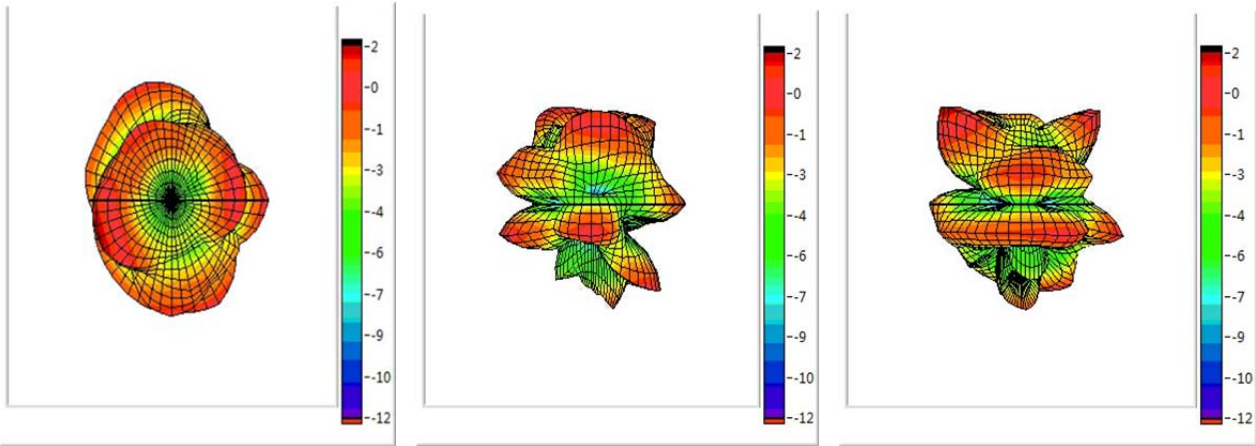
5. 5G 2D&3D



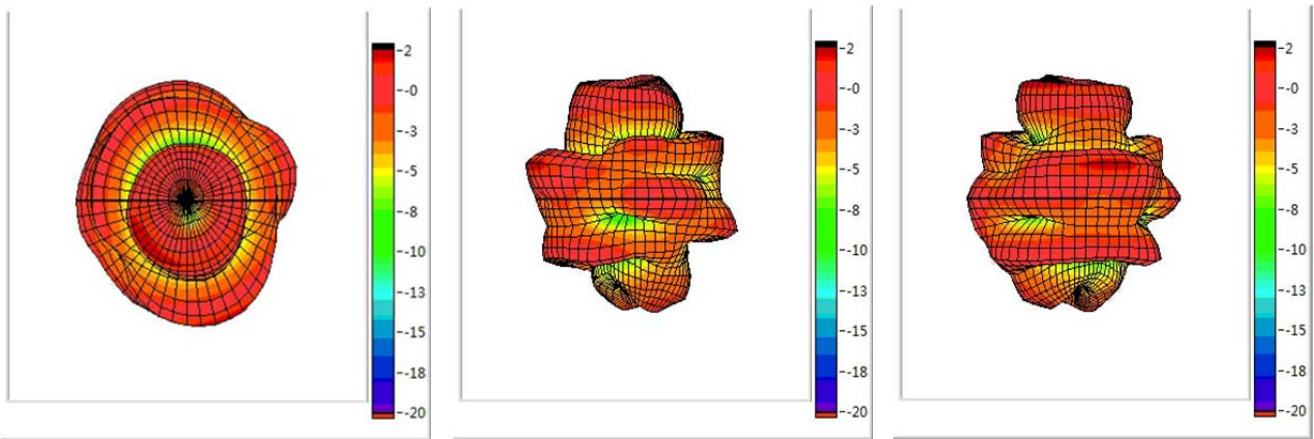
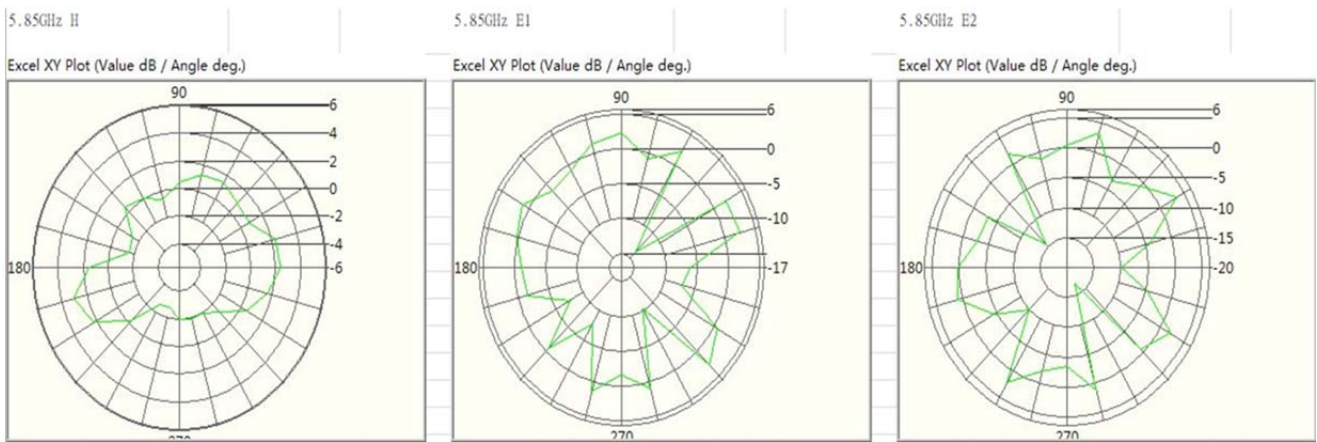
CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

No perfect status, Always seek for better!



5.85G 2D&3D



CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

Product Drawing

EVA 工程变更单号	EDITION 版本	CUSTOMER EDITION 客户版本	AREA 区域	DATE 日期	CONTENT OF CHANG 变更事项
	A00			Sep-06-21	新版发行

天线电气参数		结构特性	
中心频率	2.4GHz/5.8GHz	结构组成	塑胶杆套+SMA+PCB/弹簧
增益	≤ 5.0	尺寸	207*13.5
驻波比	≤ 2.0	线材规格	RG316
辐射方式	全向	接头形式	SMA公头内针
特性阻抗	50Ω	工作温度	-30℃~80℃
		工作湿度	Non-condensing 65℃95%RH

序号	名称	材料	用量	产品描述
8	杆套	TPEE (黑色)	1	细火花纹
7	POB+弹簧	FR-4/黄铜线	1	绿色阻油/OD1.0黄铜线
6	铆钉	PA+ABS (黑色)	2	/
5	上盖板	PA+ABS (黑色)	1	细火花纹
4	电缆线	RG316	1	剥线镀锡
3	标签	防水PET	1	白底黑字, T0.05
2	下盖板	PA+ABS (黑色)	1	细火花纹
1	SMA	HPB59-1	1	中心针镀金, 外套电泳黑

技术要求:

- 1、图中所标注尺寸为1QC必测尺寸;
- 2、各零部件组装要牢固可靠;
- 3、成品信号参数要达到指定数值;
- 4、产品需按要求包装好, 运输过程中不能有明显挤压变形等现象;
- 5、未经确认, 材质及工艺要求等不能随意更改;
- 6、产品需符合(RoHS+HF)标准;

图名	图号	料号	表面处理	适用机种	开发案号
总装		B92240-90		B92240-90	AUK02016-WIFI
材料	/	投影			双鞭杆套天线
单位	MM 比例 1:1				
文件编号/版本	AD-QP-0002-24/B				

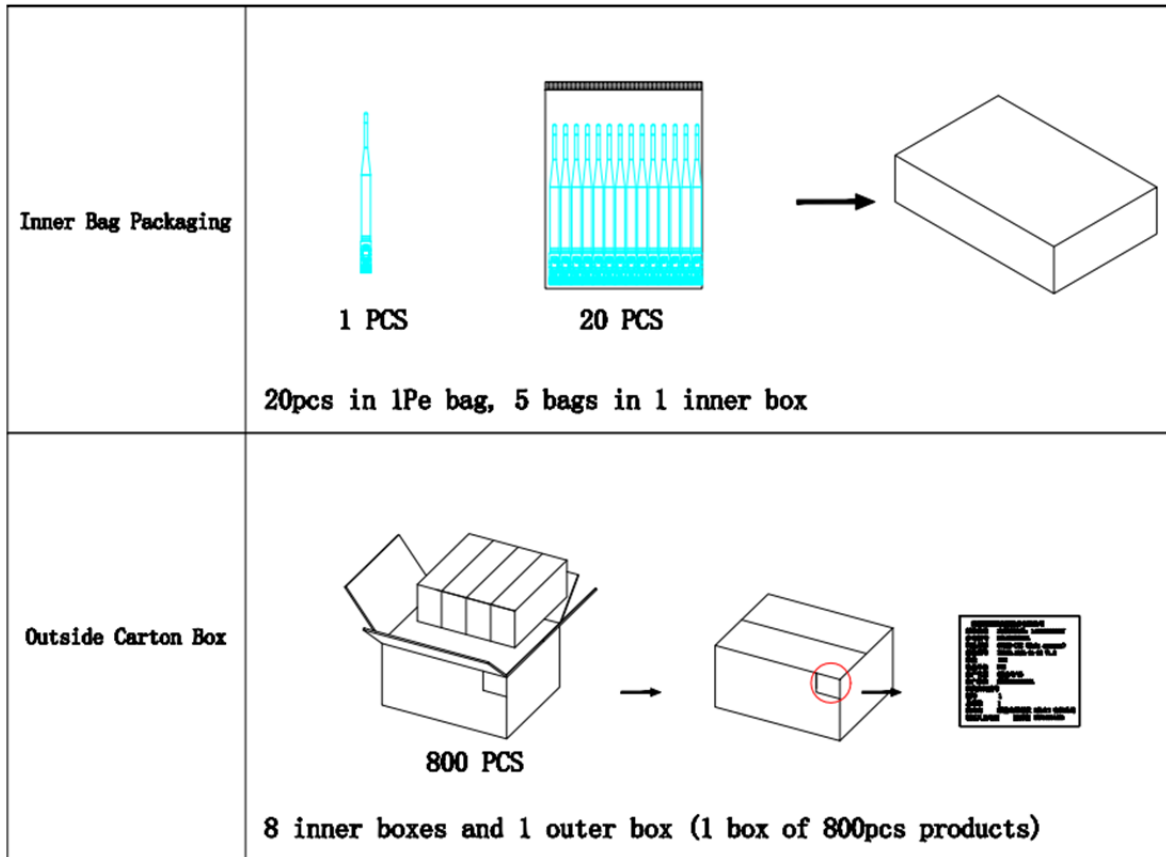
注:标注1A, 2A, 3A---等尺寸为重点尺寸, 总计 1A, 全尺寸共 1个(不含重点尺寸)		表面加工	
AUDEN		共 1 页 第 1 页	

耀登电通科技(昆山)有限公司 AUDEN TECHNO (KUNSHAN)CO. LTD		作 成	王双林	检 图	确 认
---	--	-----	-----	-----	-----

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

Packing



CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.