



深圳市英佳创电子科技有限公司

<http://www.szsyjc.com>

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CUSTOMER P/N 客户料号	H. DZ. SJ. TX. 00026	
PART NAME 品名	2. 4G/5. 8G Black Rubber Antenna	
P/ N 料号	YJC-60302-B30	
APPROVAL REV. 版次	A0	
DELIVERY DATE 送样日期	2021 年 10 月 14 日	
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CHECKED BY 审核	方文峰	
APPROVED BY 核准		
Customer Approved 客户承认		
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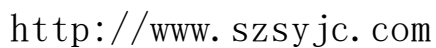
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Revision History:

Version	Change Description and Reason for Modification	Date	Release
A/0	Initial release	Oct 4 th 2021	



由 Autodesk 教育版产品制作



Antenna Specifications & Environmental Testing :

Electrical Technical Specifications			
电性能指标		Electrical Specifications	
频率范围	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	3 dBi	Gain	3 dBi
机械指标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	Black
接口形式	SMA	Input connector	SMA
天线长度	37mm	Antenna length	37 mm
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%

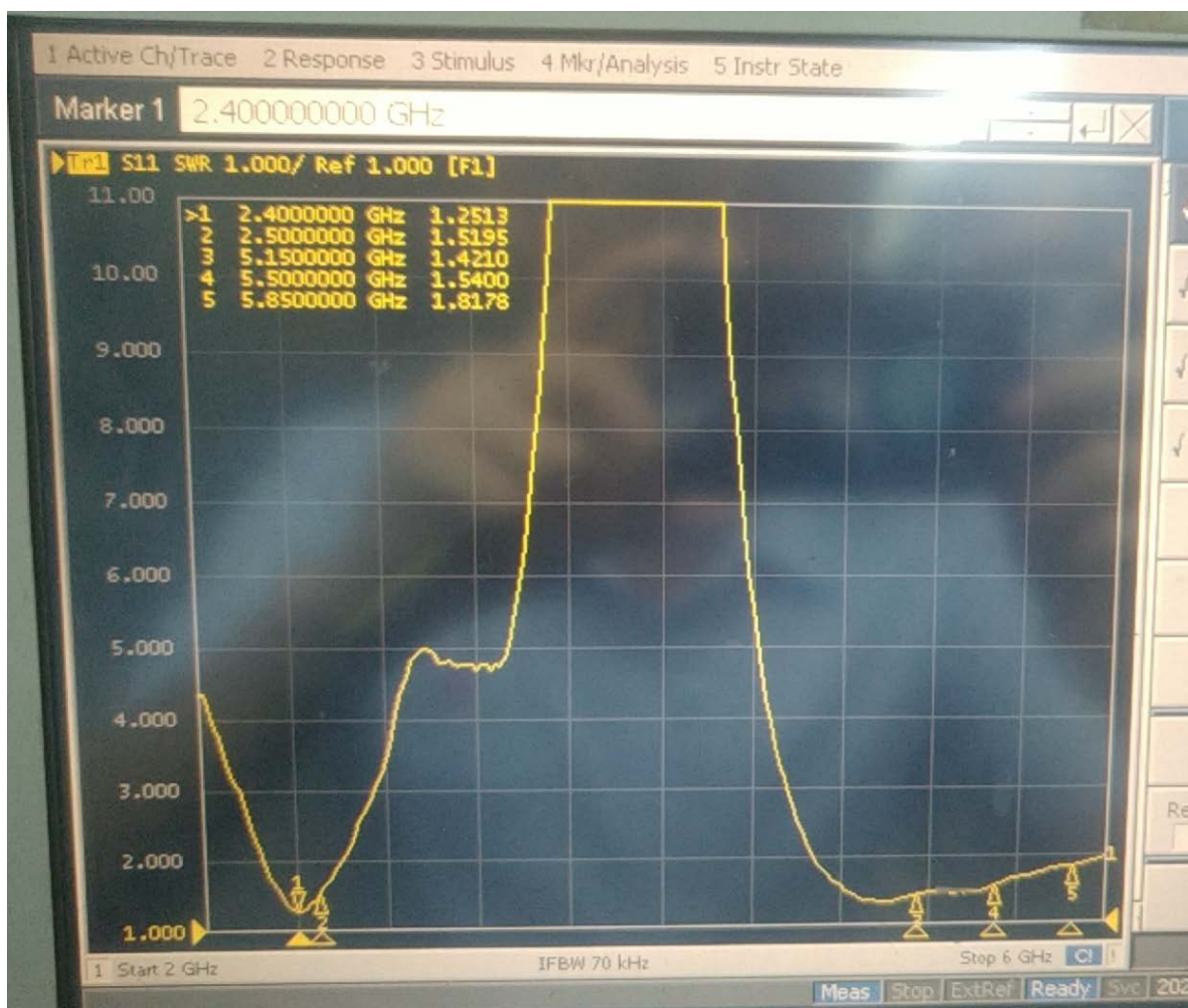
Environmental Performance Testing:

Item	Test Conditions	Spec
Storage Environment	In the absence of specific instructions, the test conditions are as follows: 1. Temperature: -30℃ to +80℃ 2. Relative Humidity: 45% to 85% 3. Air Pressure: 86 kPa to 106 kPa	Electrical and Mechanical Performance: Normal
Temperature Cycling Test	Perform 5 cycles between 70℃ and -20℃, followed by 1-2 hours under normal conditions. Then, check the appearance quality.	Dimensions shall meet specifications and ensure mechanical and electrical performance.
Damp Heat, Steady-State Test	95% $\pm$ 3% RH at 40℃ for 2 hours. Measure electrical performance within 5 minutes after removal. Inspect appearance after 1-2 hours under normal conditions.	Dimensions shall meet specs and support mechanical and electrical integrity
Vibration Test	Frequency range: 10-55 Hz, displacement amplitude: 0.35 mm, acceleration amplitude: 50.0 m/s ² , sweep cycles: 30 times.	Electrical and mechanical functions operate normally.
Drop Test	Drop freely from a height of 1 meter along three mutually perpendicular axes, once per axis	Electrical and mechanical performance: normal

Antenna Photo:



Antenna Performance Test Charts



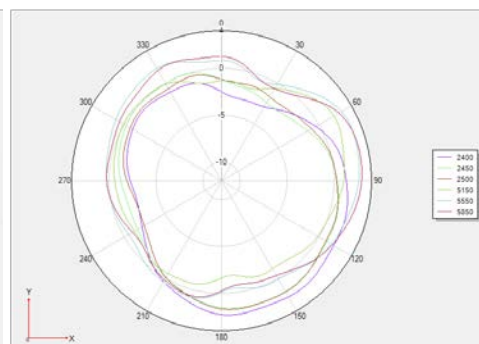
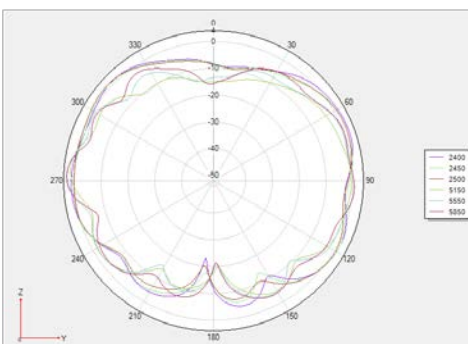
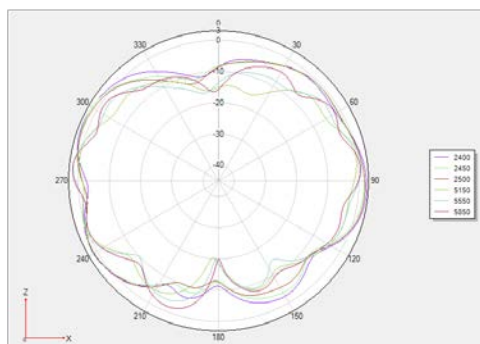
2D & 3D (2.4G/5G) Test Data:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	76.18	3.24
2410MHz	78.36	3.28
2420MHz	76.68	2.95
2430MHz	76.31	3.32
2440MHz	76.69	3.32
2450MHz	81.91	3.28
2460MHz	78.35	2.86
2470MHz	76.46	3.23
2480MHz	77.36	3.11
2490MHz	80.25	3.28
2500MHz	80.43	3.19
5150MHz	81.13	3.29
5250MHz	77.87	3.27
5350MHz	81.48	3.35
5450MHz	77.65	2.92
5550MHz	81.51	3.17
5650MHz	80.53	3.09
5750MHz	74.15	2.91
5850MHz	74.67	2.93

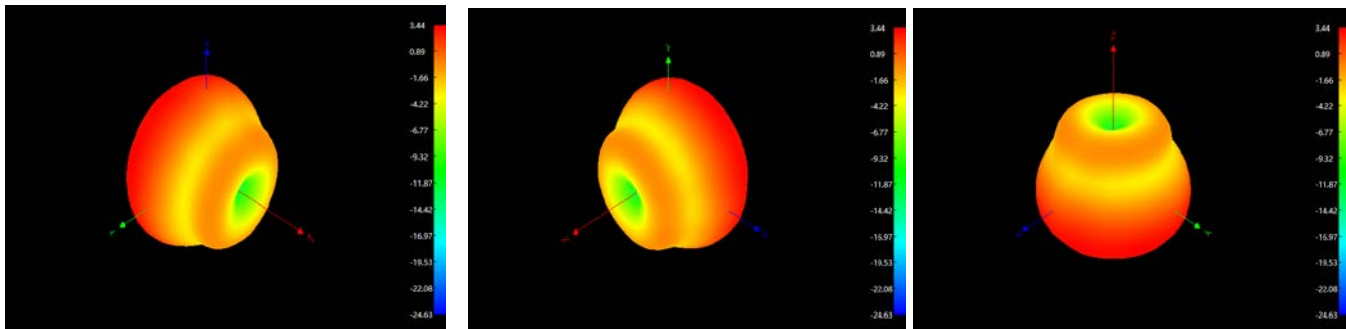
Phi 0 2D:

Phi 90 2D

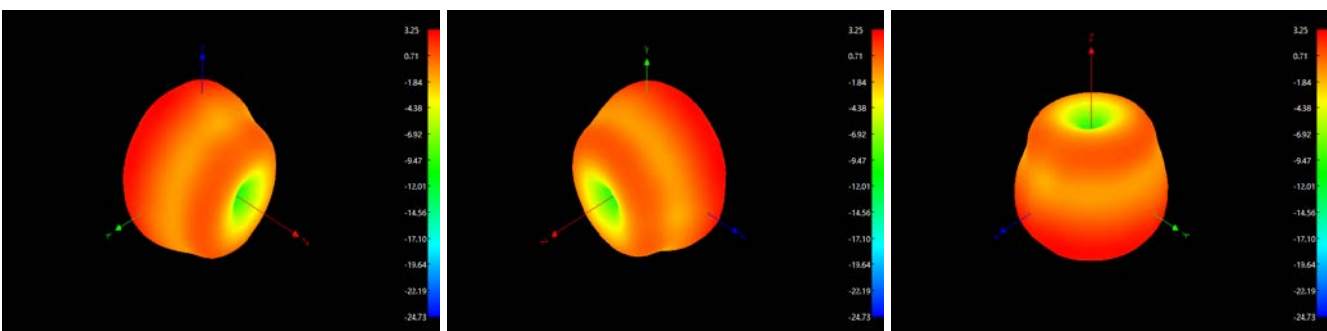
Theta 90 2D



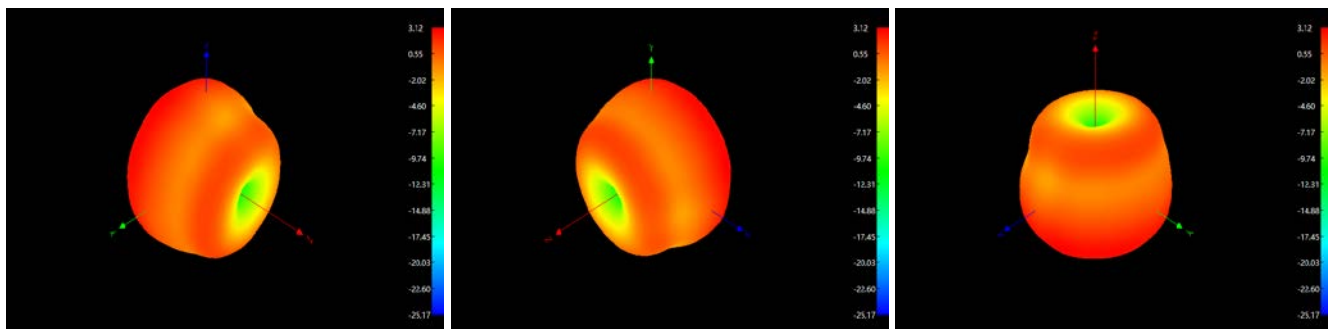
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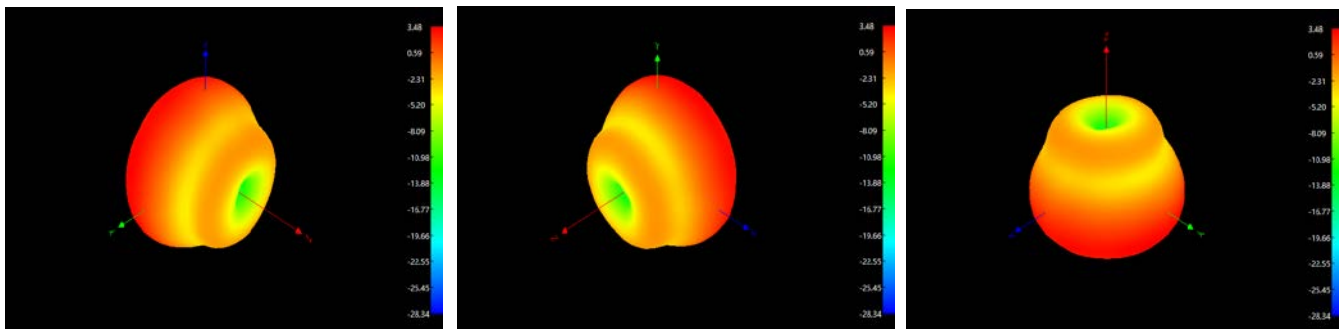
3D 2450:



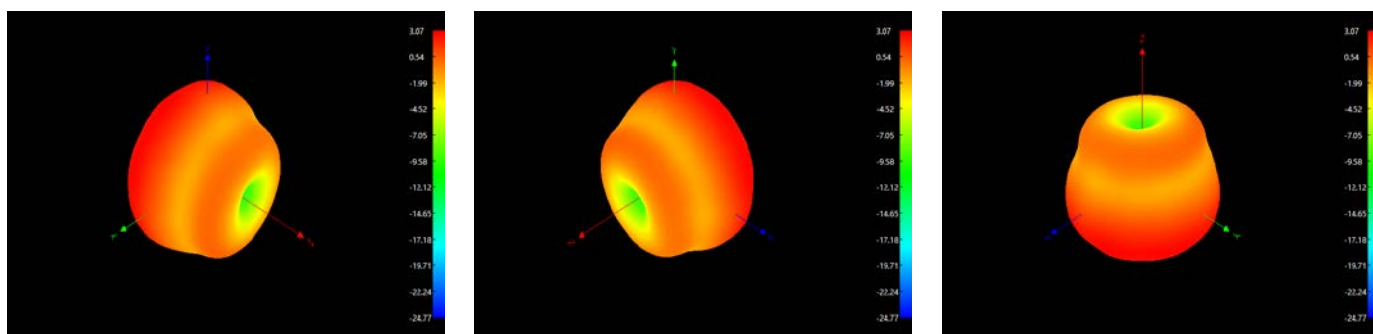
3D 2500:



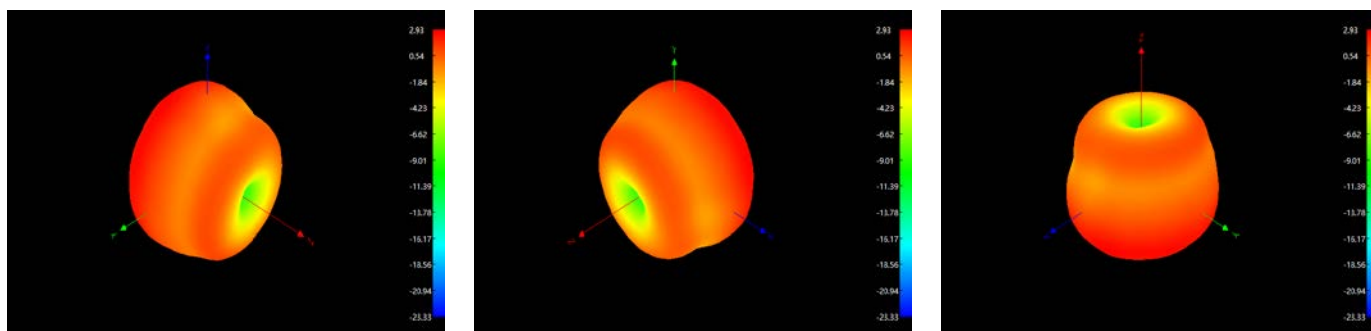
3D 5150:



3D5550:



3D5850:





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Material RoHS Compliance Declaration Form

This certifies that the raw materials, auxiliary materials, and additives used in the components delivered to your company comply with the RoHS Directive 2011/65/EU. (RoHS2011/65/EC)

The composition of the raw materials, auxiliary materials, packaging, and additives used in the components is as follows:

组成物料名称 Component /Part Name	组成材料 Material Composition	ICP 报告编号 ICP report #	测试机构 Test Org.	测试时间 Test Date	有害物质含量(ppm)						是否合格? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Spring	Brass	SZXEC2100360301	SGS	21/03/01	ND	85	ND	ND	ND	ND	PASS
Plastic Components	ABS	ETR21106223M01	SGS	21/02/07	ND	ND	ND	ND	ND	ND	PASS
Lead-Free Solder Wire	Lead-Free Solder Wire	SHAEC2112368002	SGS	21/06/22	ND	51	ND	ND	ND	ND	PASS
SMA	PTFE ROD	CANEC2018926401	SGS	20/11/10	ND	11	ND	ND	ND	ND	PASS
	Gold Plating	A2210000316101001	SGS	21/01/07	ND	ND	ND	ND	ND	ND	PASS
	Copper	SZXML2100129801	SGS	21/01/20	30	31129	ND	ND	ND	ND	PASS