APPROVAL SHEET

CUSTOMER NAME						
CUSTOMER P/N						
PART NAME	2.4G black FPC built-in antenna, 1.13 black L=265MM					
P/ N	YJC-6N265-	B07				
APPROVAL REV.	AO					
DELIVERY DATE	2023-01-05					
PREPARED BY	Wu Jiaxiong					
CHECKED BY	Wen Feng Fang					
APPROVED BY	Xiao Han					
	Customer Approved					
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Directory

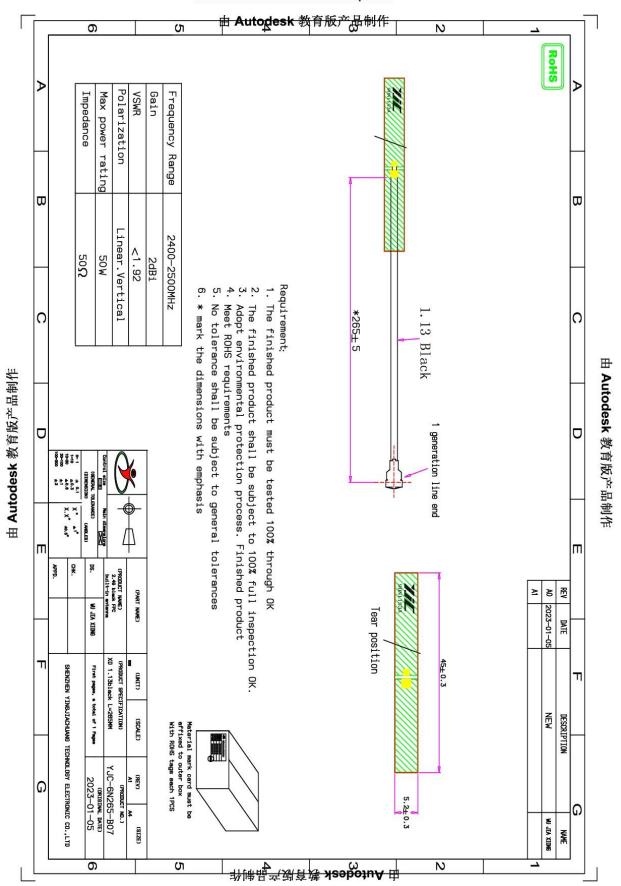
1,	The cover·····	l
2,	Directory····	2
3,	resumer·····	3
4、	The antenna's floor plan·····	4
5、	Antenna technology parameters·····	5
6、	Environmental performance testing······	5
7、	Physical picture of antenna and attach location picture	6
8、	Antenna performance test chart·····	6
9、	2D,3D Antenna pattern testing······	7
10、	Wire specification parameters	8
11、	ROHS material control report······	9

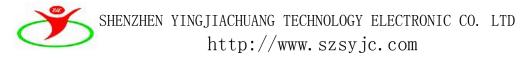


Resumer:

Version	Change contents and reasons	Date	Issue
A0	NEW	January 5th, 2023	

The antenna's floor plan:





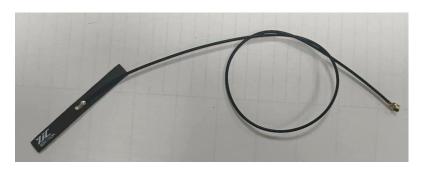
Antenna technical parameters and environmental testing:

Electrical parameters of electrical apparatus							
Electrical	Specifications	Mechanical Specifications					
Frequency Range	2400-2500MHz	Cable Color	Black				
VSWR	<1.92	Input connector	XD				
Input Impedance	50 Ω	Cable length	265 mm				
Direction	All	Working Temperature	-20℃~+70℃				
Gain 2.0 dBi W		Working Humidity	20%~80%				

Environmental performance test:

project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal

Physical picture of antenna and attach location picture:





Antenna performance test chart:



SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

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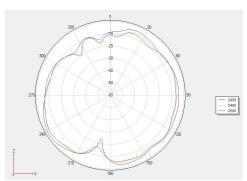
2D,3D Antenna pattern testing:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400	39. 91	2.68
2410	39. 15	2.47
2420	39. 73	2. 53
2430	40. 98	2.73
2440	40. 41	2.87
2450	41.54	2. 39
2460	40. 54	2. 47
2470	40. 19	2. 39
2480	39. 81	2. 91
2490	39. 73	2.74
2500	39. 9	2.76

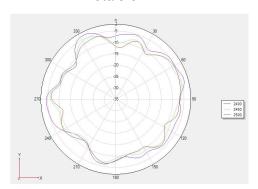
Phi 0 2D

270 270 270 240 240 240 250 250

Phi 90 2D



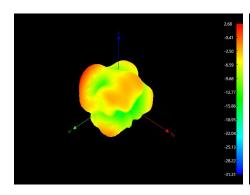
Theta 90 2D

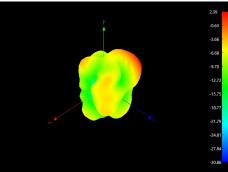


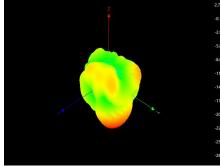
3D 2400:

3D 2450:

3D 2500:









产品规格 Product Type	1.13线							
结构图 Structure Drawing								
结构特性 Structure Chara	cteristics							
结构 Structure	项目 Item		标准值 Standard Value					
	材质 Material	镀银铜线 Silver plated copper wire						
内导体	构成(根/mm/Composition(N	7/0.08±0.005						
Inner Conductor	标称外径 Nom.Dia(mm)	Ф0.24±0.	.01					
	材质 Material		聚全氟乙丙	万烯	/FEP			
Insulation	标称外径 Nom.Dia(mm)		Ф0.7±0.0	3				
	材质 Material		镀锡铜线	Tinı	ned copper			
外导体	形式 From		编织/Wea	avin	g			
Outer Conductor	遮蔽率/ Shielding rate		≥90%					
	标称外径 Nom.Dia(mm)		Ф0.92±0.	.03				
护套	材质 Material		聚全氟乙克	万烯,	/FEP			
Jacket	标称外径 Nom.Dia(mm)		Ф1.13±0.	.05				
电气性能 Electrical Char	acteristics							
-T	标准值	Ι.			频率			
项目 Item	Standard Value	项目 Item			Frequency	Standard Value		
阻抗 Impedanc (Ω)	50±3				1GHz	≤2.23		
电容 Capacitance(pF/m)	98				2GHz	≤3.15		
抗拉强度 Tensile strengthkgf/mm²	1.76	Atte	衰减 Attenuation@20		3GHz	≤3.96		
驻波比 VSWR	≤1.40@0-6GHz		°C		4GHz	≤4.6		
耐压强度 Dielectric Strength(A.C V/1min)	1000	(0	dB/100m)		5GHz	≤5.15		
最大工作频率(MHz) Max.oper. frequency	6000				6GHz	≤5.7		
可靠性 Dependability								
最小弯曲半径(单次)Min.Bending R	adius/Single		mm			4		
最小弯曲半径(重复)Min.Bending	g Radius/Repeated		mm			8		
工作温度范围 Operating Temperating	ture		℃		-2	0~+80		
包装 Packing								
包装方式 Packing Mode		100	0(m/盘)	成	卷 Reel			
使用提示 Trips for Use								
存储环境 Storage Environment	温度:30℃以下,湿度:20-	-65%(Te	mperatur	e: k	oelow 30℃, h	numidity: 20-65%)		
铁氟龙收缩	绝缘层收缩≤0.2mm;护套层							
Teflon Shrink	(Insulation shrinkage ≤ 0.2 mm; Sheath shrinkage ≤ 0.3 mm)							
加工温度 Processing temperature	250℃~260℃的情况下,可短时间承受;300℃以上会出现热分解现象							
Trocessing temperature	Under the condition of 250 $^{\circ}$ C ~260 $^{\circ}$ C, it can bear for a short time;							
	2 个月, 2 个月以上锡效果变差,但电性能不受影响,夏季高温高湿环境开剥后需尽快流转							
最佳保存周期 The best save cycle	After 2 months, the tin effect becomes worse, but the electrical properties							
The best save cycle	are not affected, and it needs to be transferred as soon as possible after							
	peeling in high temperature and humidity environment in summer							



Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component	Material	Test	T D .	Content of harmful substances (ppm)						PASS?	
/Part Name	Composition	ICP report #	Org.	Org. Test Date	Cd	Pb	Hg	Cr 6+	PBB	PBDE	PASS
Wire rod	RG/RF Series Coaxial Cables	SZXEC2202766604	SGS	22/08/18	ND	ND	ND	ND	ND	ND	PASS
FPC	FPC	SHAEC2202460504	SGS	22/02/21	ND	ND	ND	ND	ND	ND	PASS
Environmental Tin Silk	Environmental Tin Silk	SHAEC2206174502	SGS	22/06/13	ND	181	ND	ND	ND	ND	PASS
	copper	CANEC2201952008	SGS	22/02/18	ND	5	ND	ND	ND	ND	PASS
XD	Gold	A2220404860101001C	CTI	22/09/17	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2220046361101002ER1	SGS	22/02/22	ND	ND	ND	ND	ND	ND	PASS