



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.	A0	
DELIVERY DATE	2023-01-05	
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Customer Approved		
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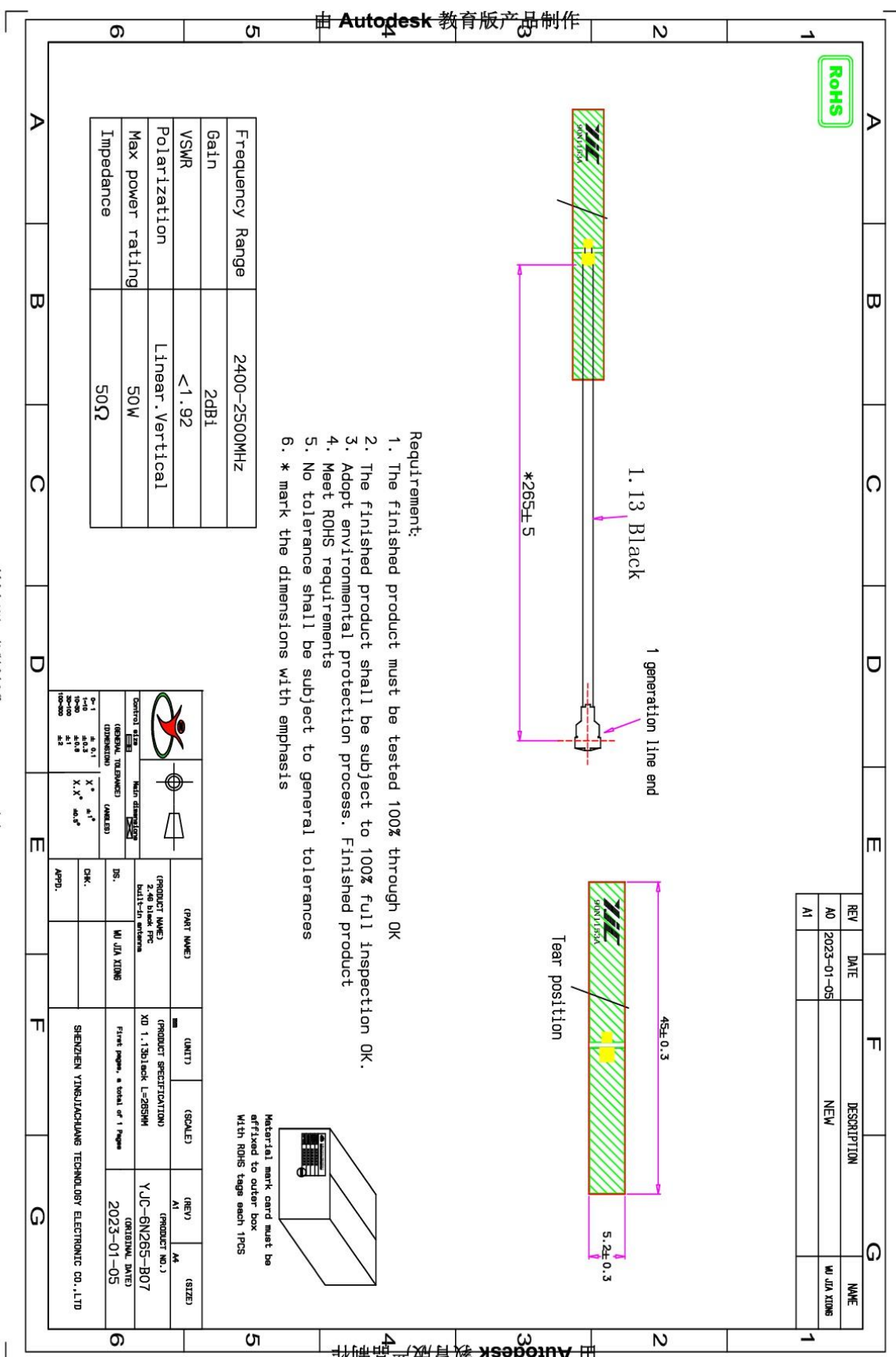


Resumer:

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



The antenna's floor plan:





Antenna technical parameters and environmental testing:

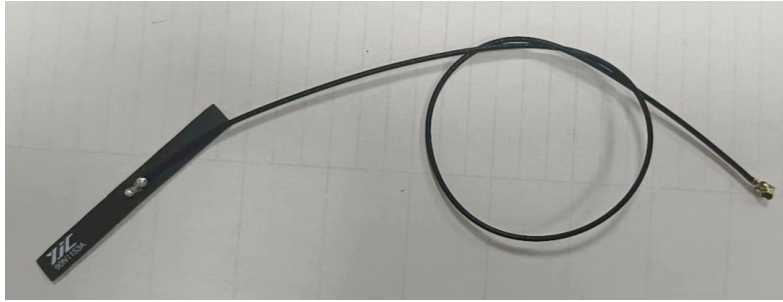
Electrical parameters of electrical apparatus			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Cable Color	Black
VSWR	<1.92	Input connector	XD
Input Impedance	50 Ω	Cable length	265 mm
Direction	All	Working Temperature	-20℃~+70℃
Gain	2.0 dBi	Working Humidity	20%~80%

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



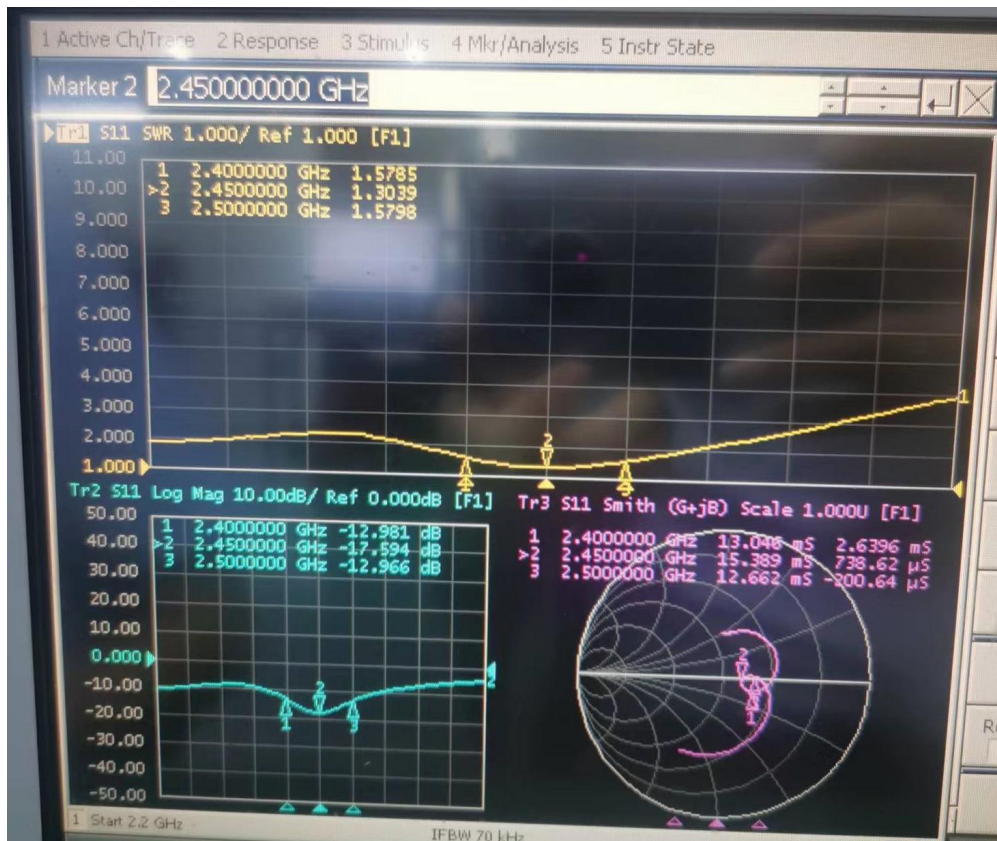
Physical picture of antenna and attach location picture:



Antenna attached position



Antenna performance test chart:

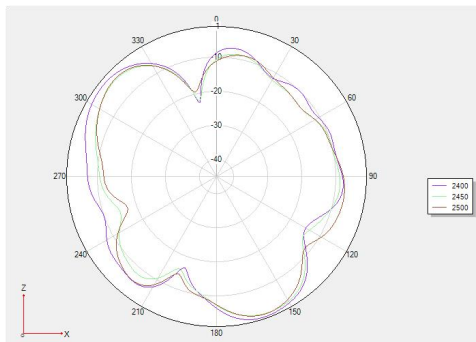




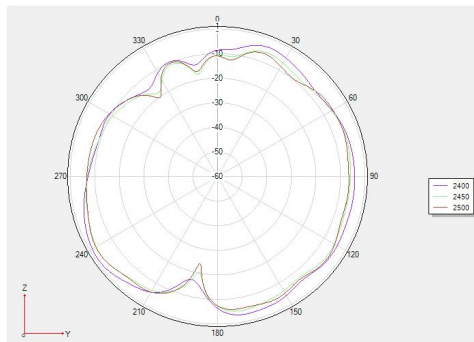
2D,3D Antenna pattern testing:

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

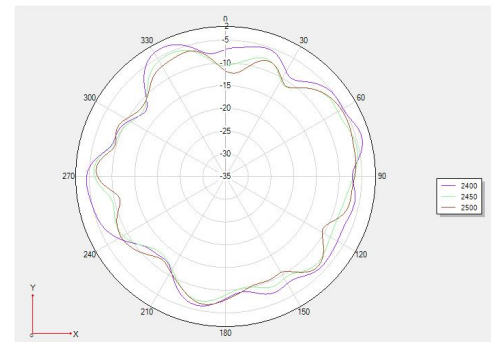
Phi 0 2D



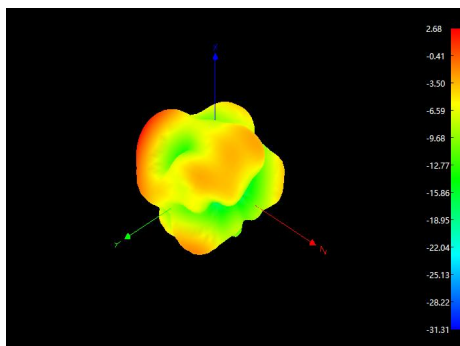
Phi 90 2D



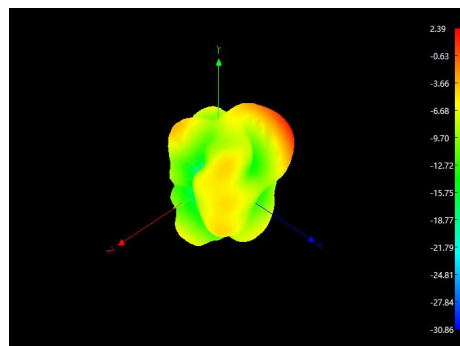
Theta 90 2D



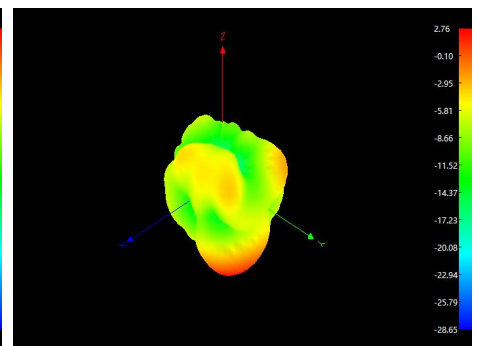
3D 2400:



3D 2450:



3D 2500:





产品规格 Product Type		1.13 线		
结构图 Structure Drawing				
结构特性 Structure Characteristics				
结构 Structure	项目 Item	标准值 Standard Value		
内导体 Inner Conductor	材质 Material	镀银铜线 Silver plated copper wire		
	构成(根/mm/Composition(No./mm)	7/0.08±0.005		
	标称外径 Nom.Dia(mm)	Φ0.24±0.01		
绝缘层 Insulation	材质 Material	聚全氟乙丙烯/FEP		
	标称外径 Nom.Dia(mm)	Φ0.7±0.03		
外导体 Outer Conductor	材质 Material	镀锡铜线 Tinned copper		
	形式 From	编织/Weaving		
	遮蔽率/ Shielding rate	≥90%		
	标称外径 Nom.Dia(mm)	Φ0.92±0.03		
护套 Jacket	材质 Material	聚全氟乙丙烯/FEP		
	标称外径 Nom.Dia(mm)	Φ1.13±0.05		
电气性能 Electrical Characteristics				
项目 Item	标准值 Standard Value	项目 Item	频率 Frequency	标准值 Standard Value
阻抗 Impedanc (Ω)	50±3	衰减 Attenuation@20 ℃ (dB/100m)	1GHz	≤2.23
电容 Capacitance(pF/m)	98		2GHz	≤3.15
抗拉强度 Tensile strengthkgf/mm²	1.76		3GHz	≤3.96
驻波比 VSWR	≤1.40@0-6GHz		4GHz	≤4.6
耐压强度 Dielectric Strength(A.C V/1min)	1000		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 Radius/Single		mm	4	
最小弯曲半径 (重复) Min.Bending Radius/Repeated		mm	8	
工作温度范围 Operating Temperature		℃	-20~+80	
包装 Packing				
包装方式 Packing Mode	1000 (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%(Temperature: below 30℃, humidity: 20-65%)			
铁氟龙收缩 Teflon Shrink	绝缘层收缩≤0.2mm；护套层收缩≤0.3mm (Insulation shrinkage ≤0.2mm; Sheath shrinkage ≤0.3mm)			
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 Under the condition of 250℃~260℃, it can bear for a short time;			
最佳保存周期 The best save cycle	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 After 2 months, the tin effect becomes worse, but the electrical properties 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 /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					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
XD	copper	CANEC2201952008	SGS	22/02/18	ND	5	ND	ND	ND	ND	PASS
	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