

APPROVAL SHEET

CUSTOMER NAME						
CUSTOMER P/N						
PART NAME	2.4G special white integrated antenna L=165mm					
P/ N	YJC-6C165-W01					
APPROVAL REV.	AO					
DELIVERY DATE	February 08, 2023					
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Customer Approved						
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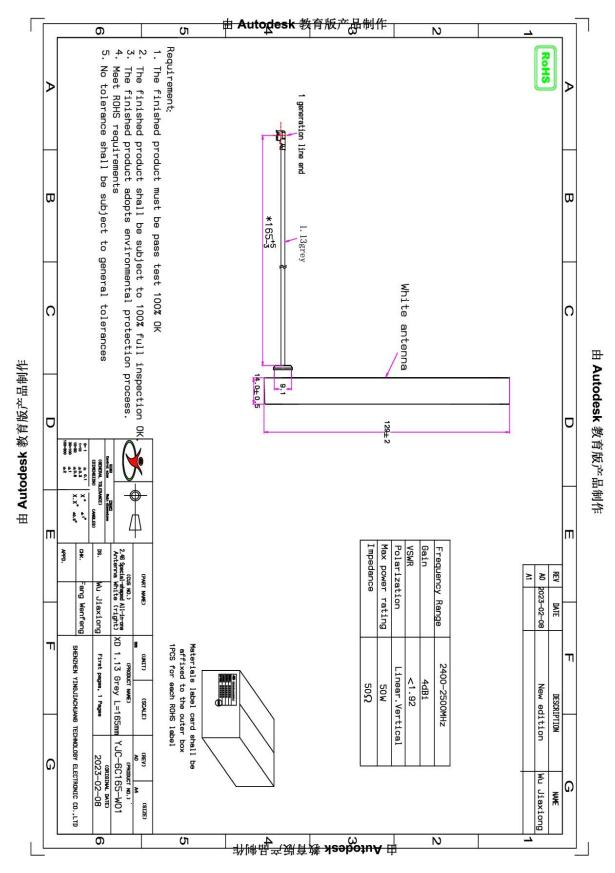


Resumer:

Version	Change contents and reasons	Date	Issue
A0	NEW	February 08, 2023	



Antenna plan:



Antenna technical parameters and environmental performance testing

Technical parameters of electrical appliances						
Electrical Specifications		Mechanical Specifications				
Frequency Range	2400-2500MHz	Antenna color	White			
VSWR	<1.92	Input connector	XD			
Input Impedance	50 Ω	Wire length	165mm			
Direction	All	Working Temperature	-20°C∼+70°C			
Gain	4 .87dBi	Working Humidity	20%~80%			

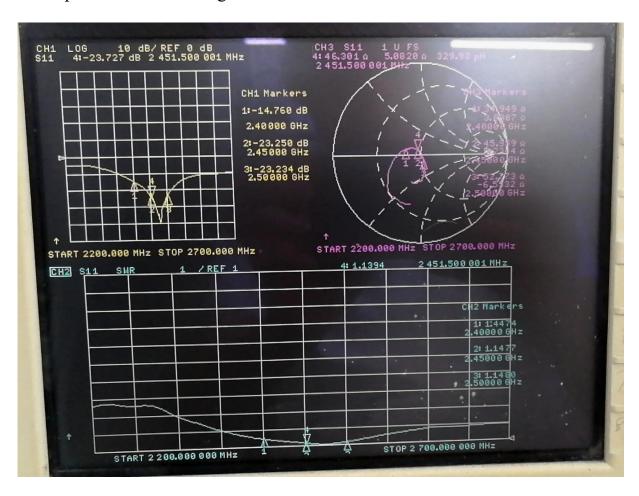
Environmental performance testing:

Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 °C ~ + 80 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performace 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 meet the performance of mechinery and electric.
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 meet the performance of mechinery and electric.
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 performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal

Actual picture of antenna:



Antenna performance test diagram:



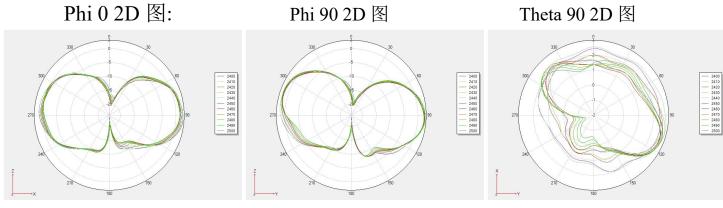
2D.3D Test Data:

(2.4G)Test Data:

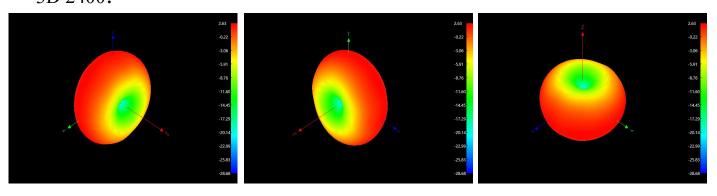
Frequency	Efficiency (%)	Gain.(dBi)
2400MHz	66. 03	4.63
2410MHz	69. 25	4. 80
2420MHz	64. 64	4. 67
2430MHz	65. 51	4. 87
2440MHz	62. 44	4. 72
2450MHz	63. 28	4. 82
2460MHz	61. 15	4. 77
2470MHz	59. 50	4. 62
2480MHz	59. 87	4. 63
2490MHz	59. 71	4. 72
2500MHz	61. 23	4.80

Phi 0 2D 图:

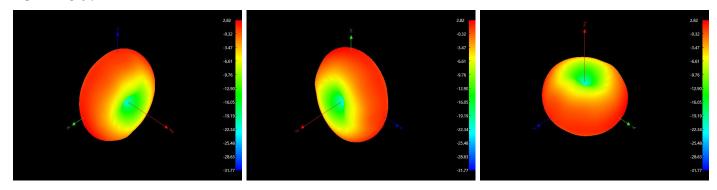
Theta 90 2D 图



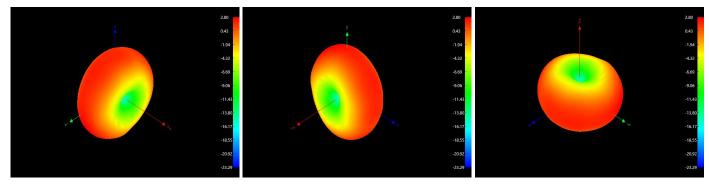
3D 2400:



3D2450:



3D2500:





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					
	材质 Material		镀银铜线 Silver plated copper wire					
内导体 Inner Conductor	构成(根/mm/Composition(N	lo./mm)	7/0.08±0.005					
Inner Conductor	标称外径 Nom.Dia(mm)		Ф0.24±0.01					
绝缘层	材质 Material		聚全氟乙內	京烯/FEP				
Insulation	标称外径 Nom.Dia(mm)		Ф0.7±0.03	3				
	材质 Material		镀锡铜线	Tinned copper				
外导体	形式 From		编织/Wea	ving				
Outer Conductor	遮蔽率/ Shielding rate		≧90%					
	标称外径 Nom.Dia(mm)		Ф0.92±0.0	03				
护套	材质 Material		聚全氟乙丙					
Jacket	标称外径 Nom.Dia(mm)		Ф1.13±0.0	05				
电气性能 Electrical Char								
项目 Item	标准值	项目 Item		频率	标准值			
LIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Standard Value 50±3			Frequency 1GHz	Standard Value			
电容 Capacitance(pF/m)	98			2GHz	≤2.23 ≤3.15			
抗拉强度 Tensile strengthkgf/mm²	1.76	A++	衰减 nuation@20	3GHz	≤3.96			
驻波比 VSWR	≤1.40@0-6GHz	Atte	riuation@2i ℃	4GHz	≤4.6			
耐压强度	1000	(0	dB/100m)	5GHz	≤5.15			
Dielectric Strength (A.C V/1min) 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 Temperat	ture		°C	-	-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%							
铁氟龙收缩 Teflon Shrink		层收缩≦0.3	ßmm					
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							
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							



Material RoHS conformity declaration form

We hereby certify that the raw materials used and the additives in the production engineering of the products to your company are conformed to the RoHS environmental requiremetrs. (RoHS directive 2011/65 / EU)

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

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
bullet	Brass tape	NGBEC22001696604	SGS	22/06/06	ND	33	ND	ND	ND	ND	PASS
Wire rod	RG/RF series coaxial cable	SZXEC2202766604	SGS	22/08/18	ND	ND	ND	ND	ND	ND	PASS
Ground column	Zinc alloy	SZXML2200496902	SGS	22/03/09	ND	19	ND	ND	ND	ND	PASS
Plastic parts	ABS	238539448h001	SGS	22/03/07	ND	ND	ND	ND	ND	ND	PASS
Heatshrinkable sleeve	Heatshrinkabl e sleeve	CANEC2211474412	SGS	22/06/08	ND	ND	ND	ND	ND	ND	PASS
spring	brass	CANEC2219550104	SGS	22/09/16	ND	20	ND	ND	ND	ND	PASS
	copper	CANEC2201952008	SGS	22/02/18	ND	5	ND	ND	ND	ND	PASS
terminal	Gold plating layer	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