

SPECIFICATION FOR APPROVAL


Customer Name: _____

Customer P/N: SD-A33Jing Feng P/N: JF81014Specification Description: 2.4G/5.8G WIFI Dual Band AntennaProduction Date: 2023-11-17

Factory Confirmation:

Department	CHECKED BY	APPROVED BY
RF Department	Tan Mu Chen	Wang Shuo
Structure Department	Liang Sen	Wang Shuo
Quality Department	Liu Xiao Jun	Wang Shuo

Customer Confirmation:

INSPECTION	CHECKED	APPROVED
		

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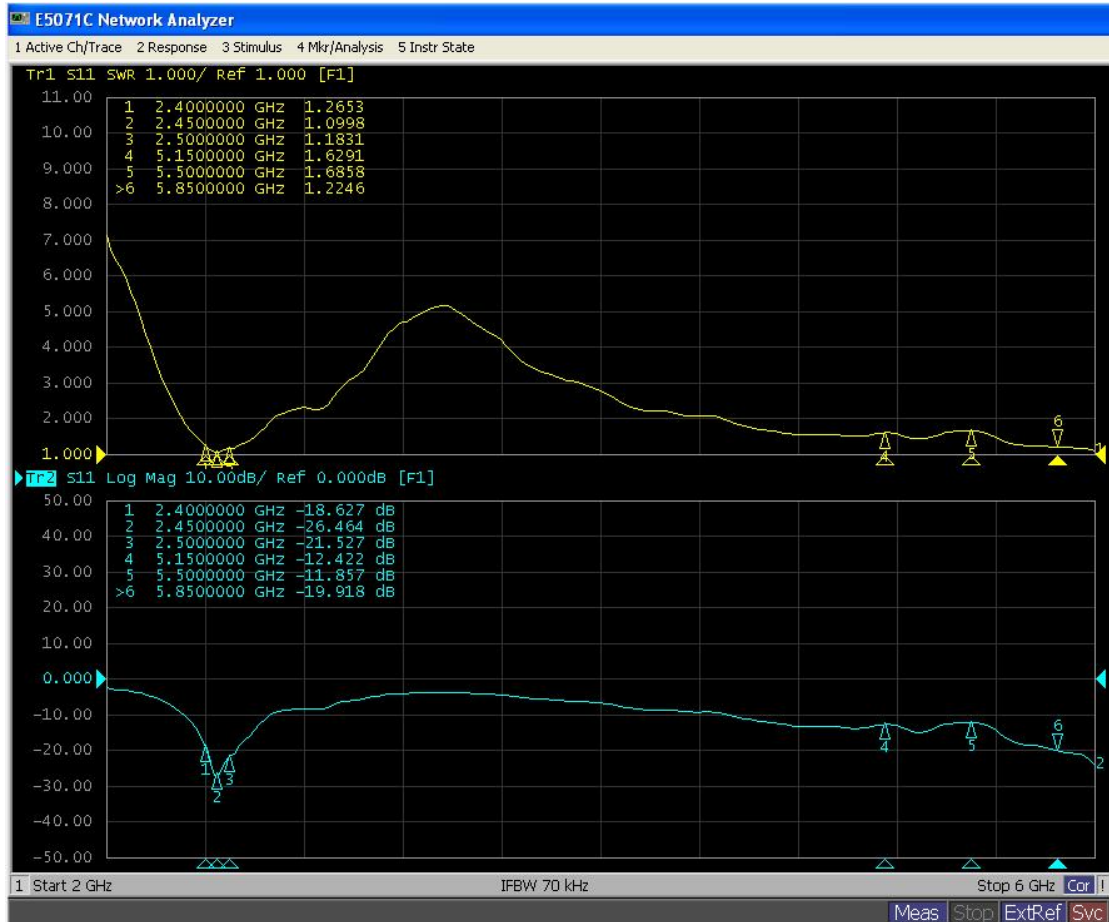
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4、 Main technical specifications

Electrical Parameters	
Frequency Range (MHZ)	2400-2500MHz&5150-5850MHz
Impedance (Ω)	50 Ω
VSWR	≤ 2.0
Peak Gain (dBi)	3 ± 0.5 dBi
Power Capacity	1W
Withstand Voltage Test	1KV
Polarization	Linear, Vertical
Radiation	Omni-Directional
Mechanical Parameters	
Antenna Size	29.4*8.04*4.35mm
Salt Spray Test	24H
Environmental Parameters	
Operating Temp	-60 $^{\circ}$ C--150 $^{\circ}$ C
Storage Temp	-60 $^{\circ}$ C--150 $^{\circ}$ C

6、Electrical Performance Test report

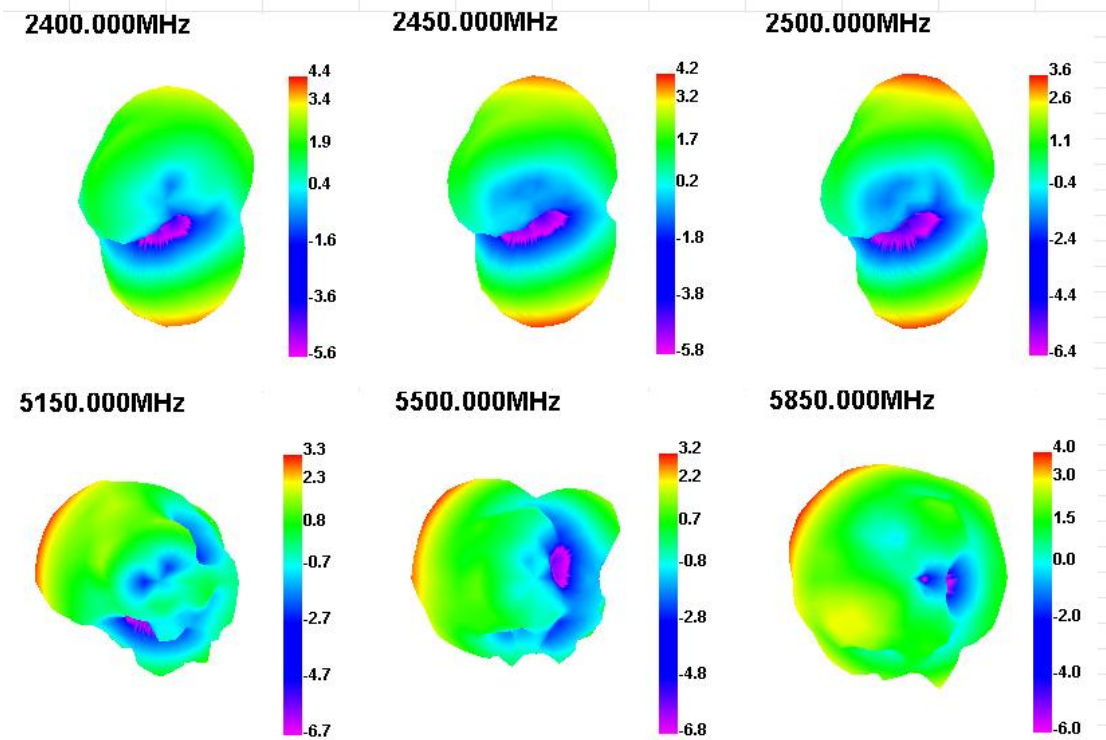
2. 4G&5.8G-VSWR/Return Loss



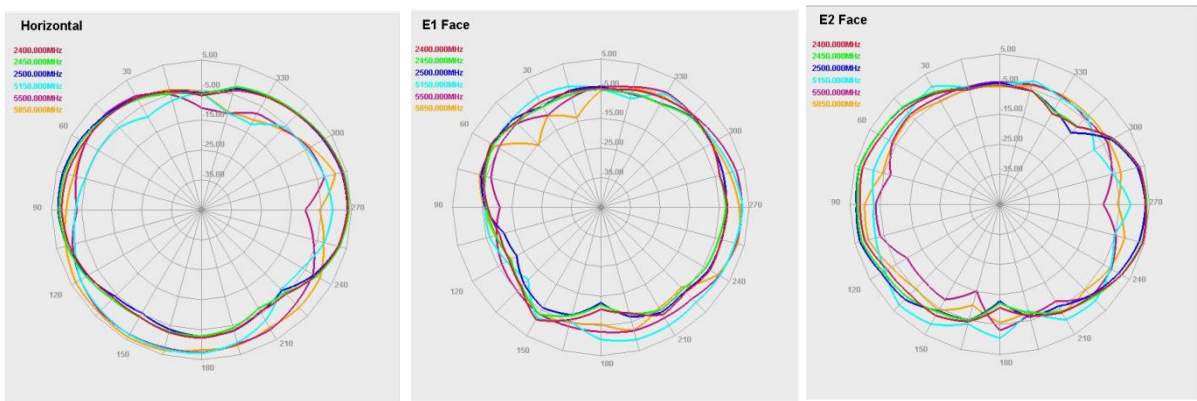
Efficiency & gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	65.08	4.4
2410	55.63	3.6
2420	56.84	3.63
2430	56.38	3.54
2440	64.9	4.18
2450	66.38	4.15
2460	68.9	4.08
2470	62.84	3.53
2480	66.89	3.78
2490	60.43	3.31
2500	64.73	3.64
Freq (MHz)	Effi (%)	Gain (dBi)
5100	71.28	3.3
5200	63.94	2.67
5300	66.67	2.67
5400	64.2	2.61
5500	57.72	2.13
5600	52.27	2.26
5700	52.34	2.31
5800	59.27	3.21
5900	52.96	3.03

3D Radiation pattern:



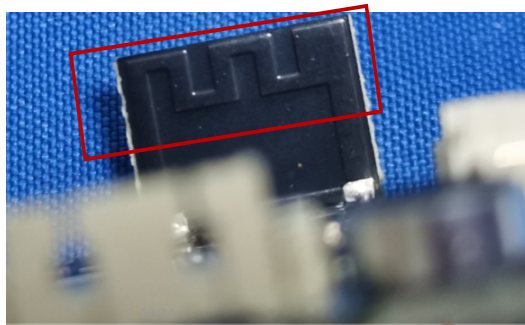
2D Radiation pattern:



7、OTA Test Data

2.4G (802.11b mode)	Channel	Power (dbm) 1M	Sensitivity (dbm) 11M
	1	13.13	-80.14
	7	13.73	-81.44
	13	13.73	-81.92
2.4G (802.11g mode)	Channel	Power (dbm) 6M	Sensitivity (dbm) 54M
	1	11.09	-71.47
	7	11.45	-68.09
	13	11.12	-68.59
2.4G (802.11n mode)	Channel	Power (dbm) MSC0	Sensitivity (dbm) MSC7
	1	11.04	-70.68
	7	11.14	-70.29
	13	11.23	-69.67
5.8G (802.11a mode)	Channel	Power (dbm) 6M	Sensitivity (dbm) 54M
	36	11.09	-67.39
	64	11.24	-68.72
	149	14.32	-71.82
	161	12.63	-69.24
5.8G (802.11n mode)	Channel	Power (dbm) MSC0	Sensitivity (dbm) MSC7
	36	11.11	-69.44
	64	11.45	-70.24
	149	14.29	-68.27
	161	13.08	-71.18

8、Device Description



2. 4G&5. 8G Dual Band Antenna