

Data Sheet

Product : WI-FI Antenna

Date: June 10, 2022

Customer Applied model			
Customer			
Customer Part No.			
Product Description	Dualband WI-FI Antenna		
Supplier	saixun		
Supplier Part No.	SX-001-2208		
Customer	By designed	By Checked	By Approval

Catalogue

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 Electrical Properties

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Revision History

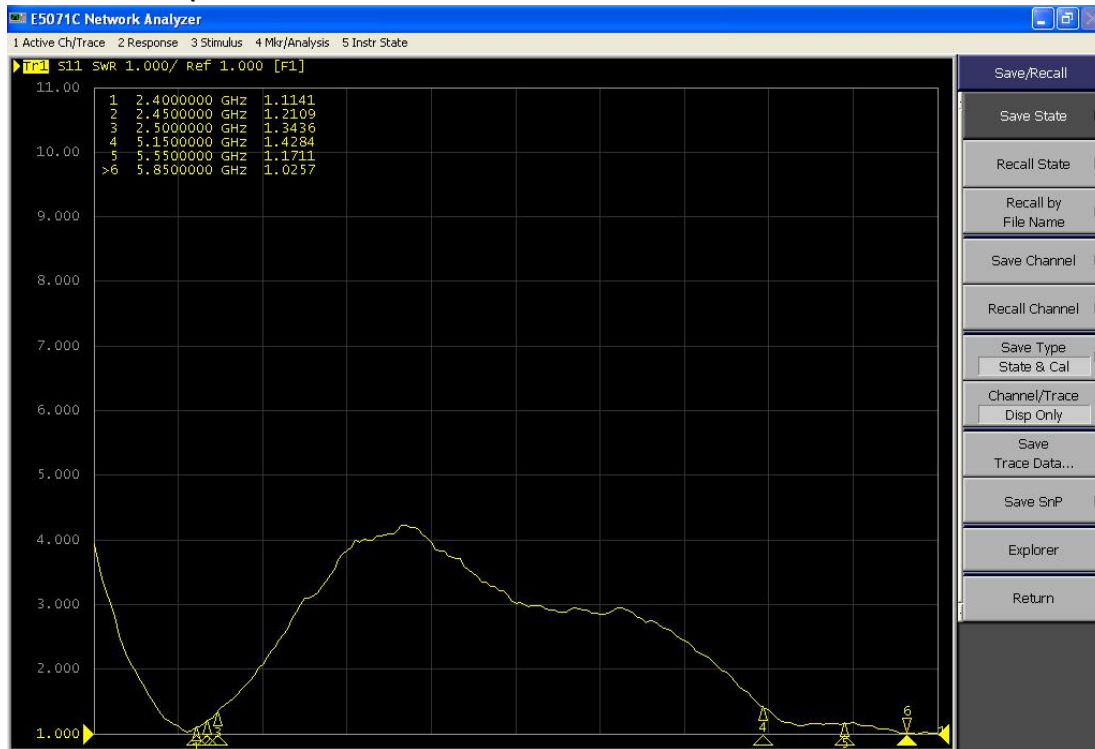
Revision No.	Originator	Description of changes	Date of changes
1	Changmin Wu	First document	June 10, 2022
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

1 General

Electrical Properties	
Frequency Band	2.4/5.8GHz
Impedance	50 ohm
VSWR	≤ 2.0
Gain	$\leq 5\text{dBi}$ / $\leq 3\text{dBi}$
Radiation Pattern	Omni-Directional
Polarization	V/H
Antenna Type	Dipole
Mechanical Properties	
Antenna Dimension	94mm
Connector Type	RP-SMA
Connector pull	3 kg min
Connector Torque force	150-450 gf-cm
Cable Type	RG-178
Installation site	Machine outside
Environment Properties	
Operational Temperature	-40°C ~ +85°C
Storage temperature	-30°C ~ +60°C

2 Test Data

2.1 Network Data (Return loss)



2.2 Radiation pattern

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-1.00	-1.02	-1.14	-1.22	-1.21	-1.16	-1.22	-1.27	-1.30	-1.30	-1.25
Gain (dBi)	4.75	4.63	4.36	4.07	3.83	3.68	3.52	3.40	3.35	3.31	3.26
Efficiency (%)	79.51	79.02	76.94	75.52	75.71	76.62	75.53	74.67	74.15	74.13	74.92

Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-1.98	-2.00	-2.09	-2.03	-2.18	-2.24	-2.19	-2.05	-1.99	-1.94	-1.93	-1.90	-1.87	-1.92	-1.94
Gain	1.68	1.72	1.94	2.26	2.22	2.26	2.48	2.91	3.00	2.85	2.98	2.80	2.85	2.90	3.00

(dBi)															
Efficiency (%)	63.44	63.06	61.85	62.61	60.47	59.65	60.44	62.30	63.30	64.04	64.14	64.62	65.02	64.21	64.02

