
Project :Y2025060509

Date. 2025.06.05

REV: A1

Antenna SPEC

Name: Shuzhiyinli (Xiamen) Sports Technology Co., Ltd.

P/N: AG-041315

Spec : PCB antenna

Sealed by corporation:

compilation	ver i fy	approval
Wanghui	Zhangwei	Liuwei

Sealed by customer:

check	verify	approval

Document making / revising / abolishing resume

[illegible]

Contents

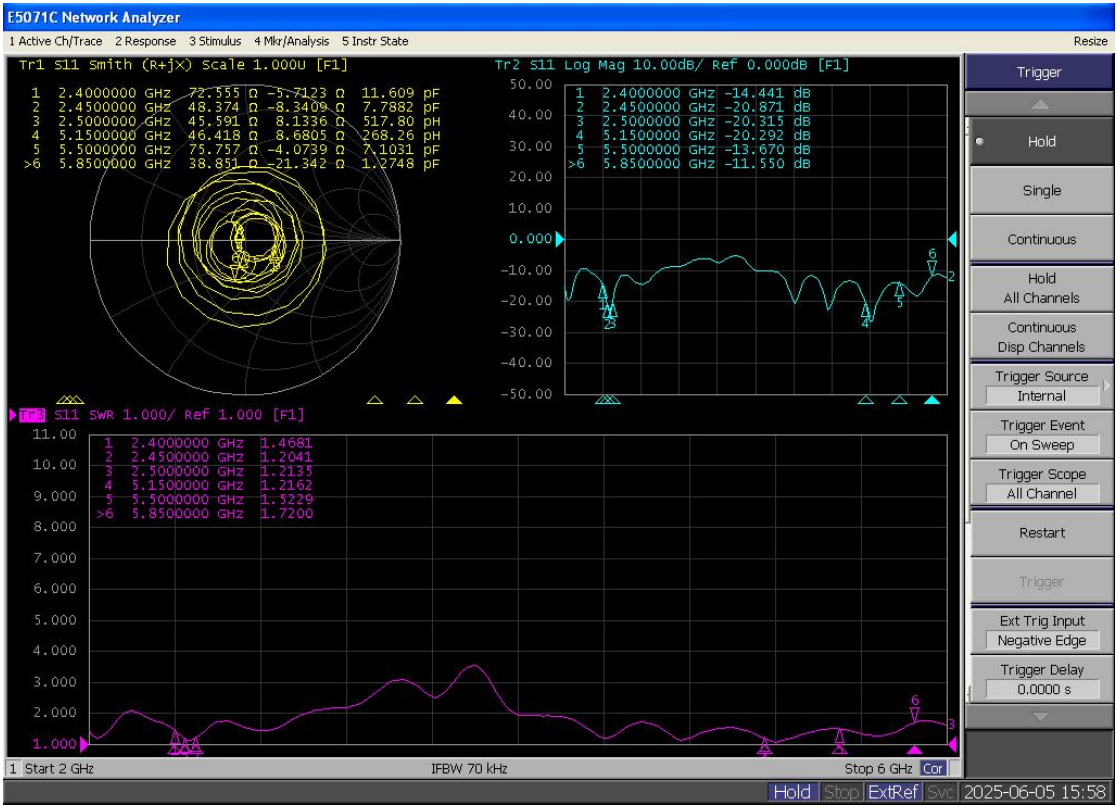
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3、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500MHz/5150-5850MHz
Characteristic Impedance	50 Ω
VSWR	sample of reference project
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Connector style	terminal
Environment parameter	
Operating Temp	-30°C~65°C

4、Electrical test report

S11 Parameter



Electrical Performance Test Parameter Table

Frequency/MHz	2400	2450	2500	5150	5500	5850
VSWR	1.46	1.20	1.21	1.21	1.52	1.72

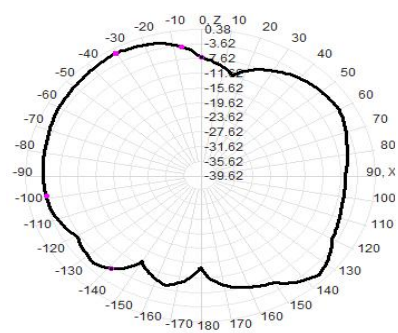
Gain & efficiency

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
Gain (dBi)	0.38	0.53	0.66	0.56	0.50	0.56	0.64	0.43	0.46	0.46	0.93
Efficiency (%)	47.23	47.84	47.56	47.02	47.09	47.31	47.66	46.45	45.53	43.70	45.47

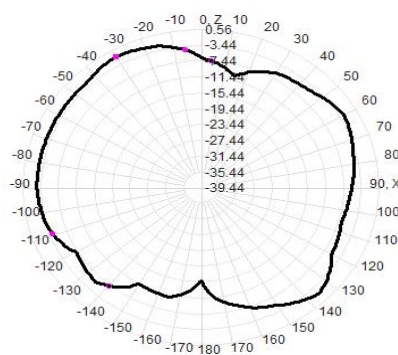
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	1.23	1.87	1.54	2.79	2.05	1.90	1.89	1.95	1.83	2.70	1.63	1.88	2.78	2.69	1.61
Efficiency (%)	39.88	38.28	40.05	41.72	43.44	43.01	42.01	39.65	41.75	41.22	43.42	41.48	49.35	43.52	41.43

Radiation pattern

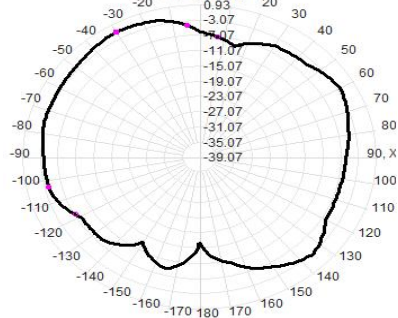
(1) 2400.0MHz Total(E1-XZ), Max= -0.99dBi:



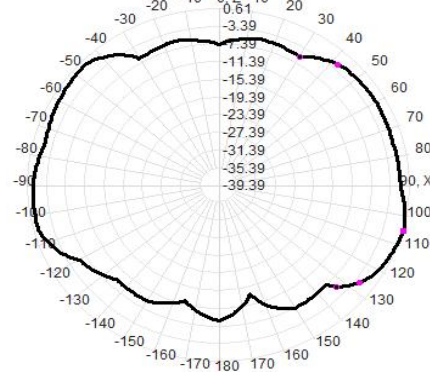
(2) 2450.0MHz Total(E1-XZ), Max= -1.19dBi:



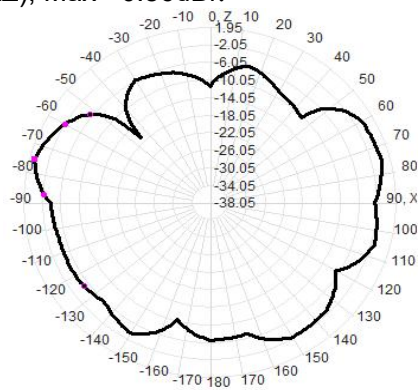
(3) 2500.0MHz Total(E1-XZ), Max= -1.16dBi:



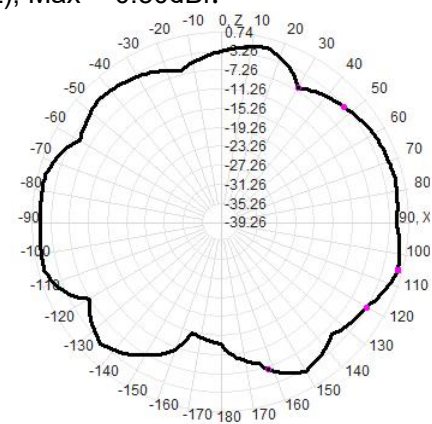
(4) 5150.0MHz Total(E1-XZ), Max= 0.48dBi:



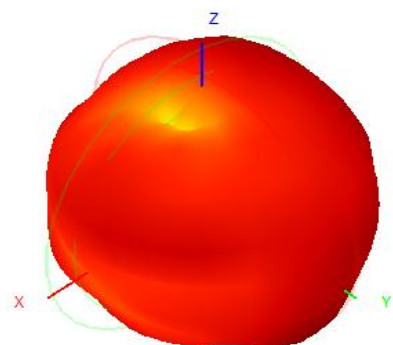
(5) 5500.0MHz Total(E1-XZ), Max= 0.86dBi:



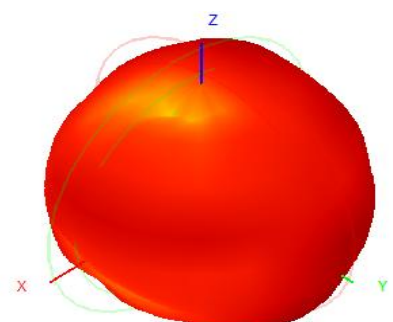
(6) 5850.0MHz Total(E1-XZ), Max= -0.50dBi:



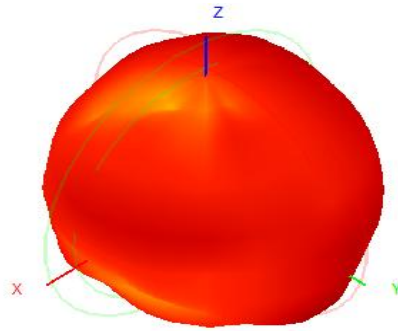
(7) Typical Free Space 3D Radiation Pattern at 2400MHz(unit:dBi)



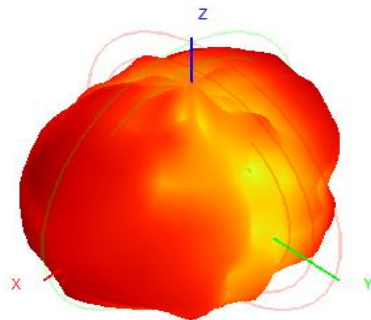
(8) Typical Free Space 3D Radiation Pattern at 2450MHz(unit:dBi)



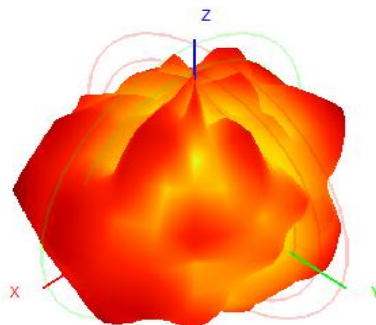
(9) Typical Free Space 3D Radiation Pattern at 2500MHz(unit:dBi)



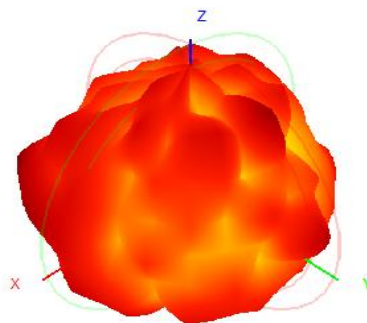
(10) Typical Free Space 3D Radiation Pattern at 5150MHz(unit:dBi)



(11) Typical Free Space 3D Radiation Pattern at 5500MHz(unit:dBi)



(12) Typical Free Space 3D Radiation Pattern at 5850MHz(unit:dBi)



5、 LABEL CRITERION

P/N : <u>AG-041315</u>			
Spec. : <u>PCB antenna</u>			
一、 contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)			
Label for PE bag/ carton, L:10cm;W:6cm			
buyer	*****		
vender	*****		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	**** * * *
Trace code	*****	Running water number	*****

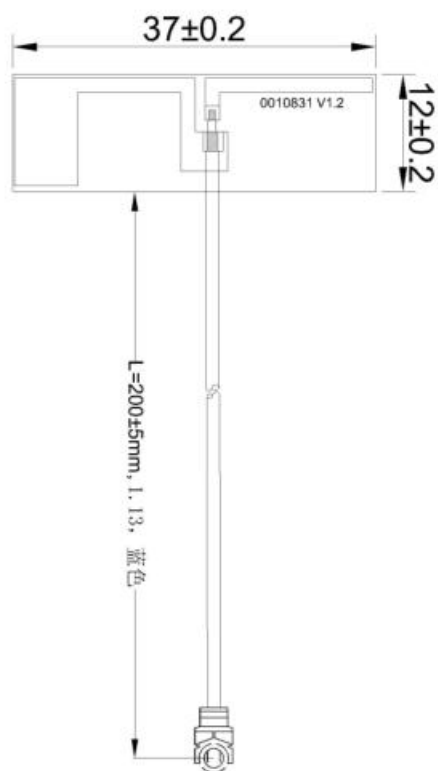
Label for PE bag/ carton, L:10cm;W:6cm			
buyer	*****		
vender	*****		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	**** * * *
Trace code	*****	Running water number	*****

6、Diagram of antenna

View Of Antenna



Antenna Dimensions



Test View Of Antenna

