

SPECIFICATION



ShenZhen TianDa Communication Co,LTD

V8S Base Station 5.8G Antenna

Product Specification

Customer	Zhi Ling	Frequency band	5150-5850MHz
Project name	V8S Base Station	Edition	A
Item number	ZL-V8-S0-5G-A	Colour	Natural color
R Fdesign	Wangxinchuang	Structural design	Hesenlin
Date	2022.01.19		

Customer confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

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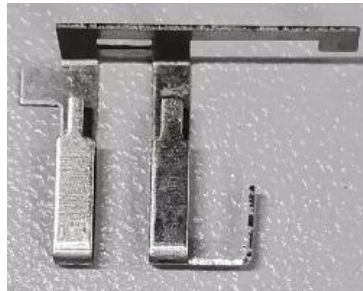
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一、5.8G Antenna

1、Specifications

The specification mainly provides the test status of electrical and structural performance parameters of 5.8GHz antenna in V8S Base Station project。The picture below shows the 5.8GHz antenna designed by Tianda.



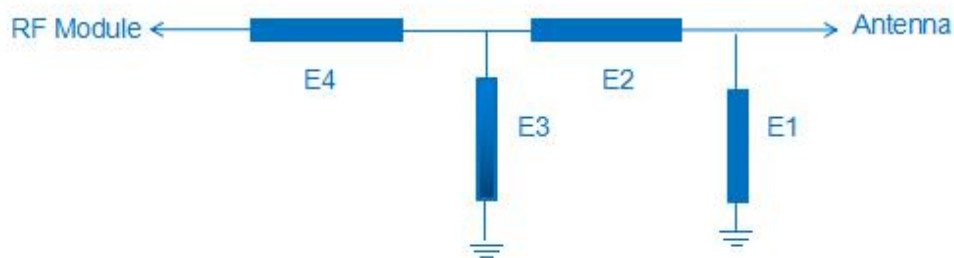
1.1、Electrical specifications

1.1.1、Electrical performance index

The operating frequency band of the antenna 5150MHz—5850MHz, The following is the electrical performance index of the antenna designed and produced by Tianda.

WIFI		
频段	频率（MHz）	VSWR
5.8G	5150~5850	≤ 2.5

1.1.2、Matching circuit diagram

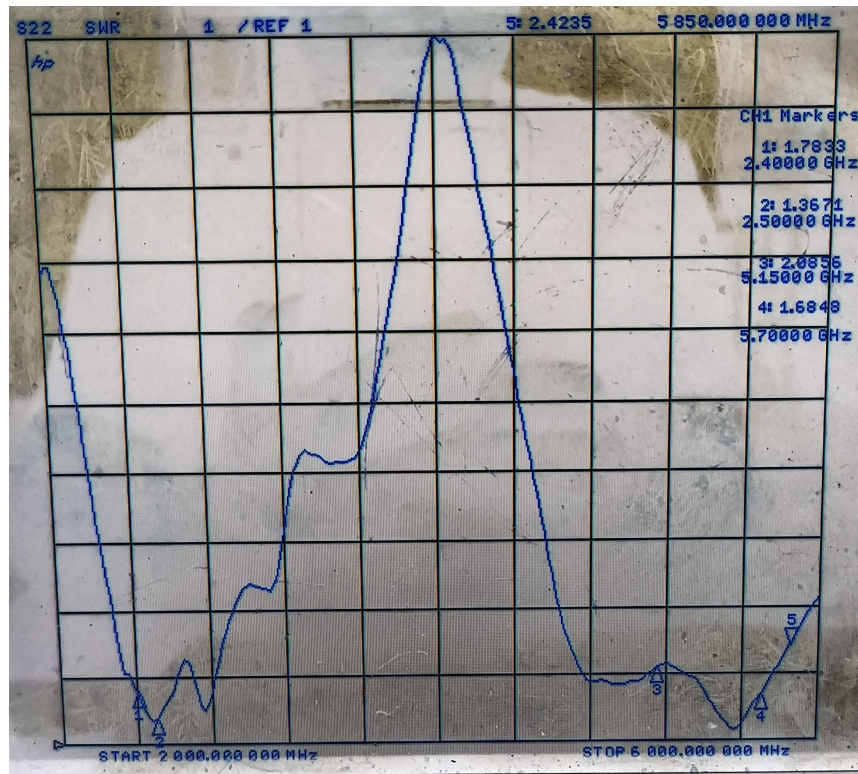


The matching circuit of 5.8G Antenna is a series 1.2nH inductance.

1.2、Testing

1.2.1、Passive test

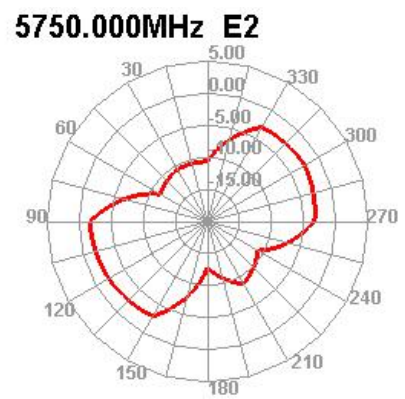
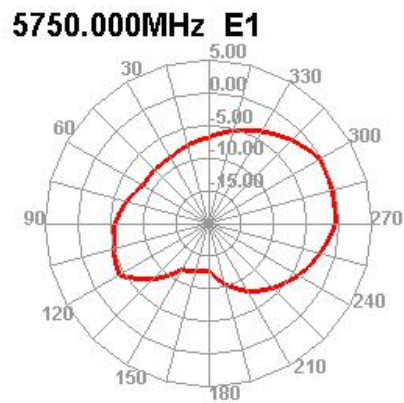
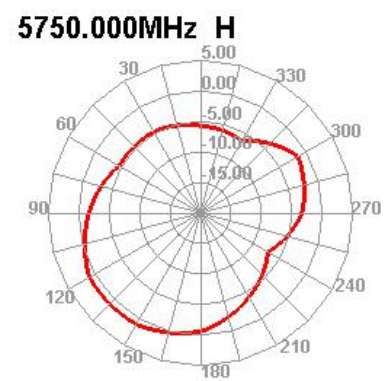
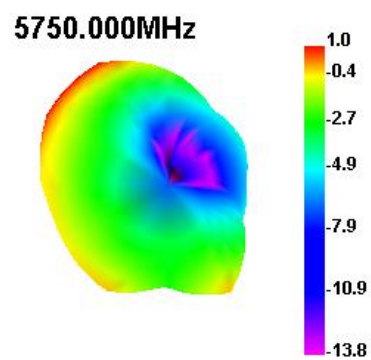
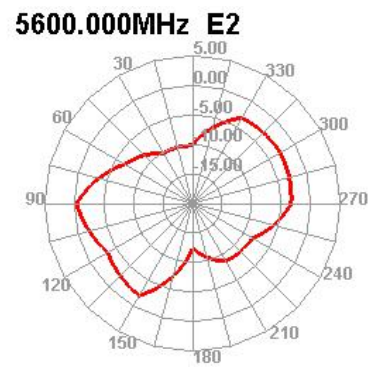
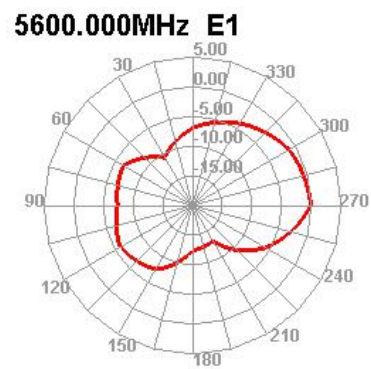
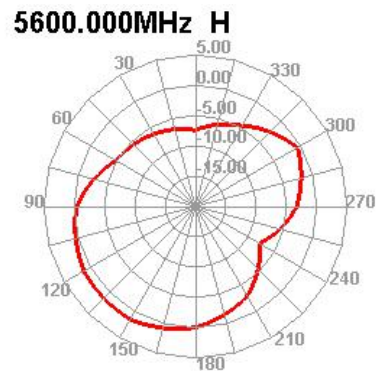
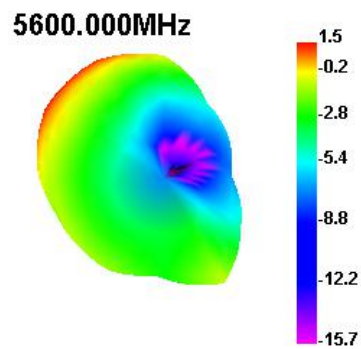
1.2.1.1、VSWR



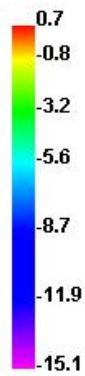
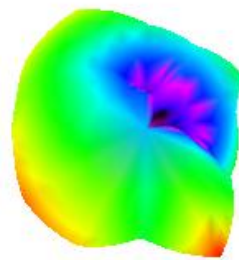
1.2.1.2、Antenna Gain and Efficiency

Passive Test For 5.8GHz									
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	39.02	-0.09	-2.24	19.826	19.192	-0.09	-13.01	54.49	54.03
5200	39.92	0.21	-1.94	20.239	19.68	0.21	-13.79	54.28	53.76
5250	41.24	0.56	-1.59	20.966	20.27	0.56	-14.05	54.14	53.64
5300	42.39	0.58	-1.57	21.649	20.739	0.58	-14.45	54.51	54.01
5350	43.8	0.65	-1.5	22.517	21.287	0.65	-16.54	55.08	54.52
5400	46.68	1.07	-1.08	24.388	22.292	1.07	-19.9	55.69	55.05
5450	48.07	1.39	-0.76	24.718	23.355	1.39	-17.59	55.79	55.04
5500	49.65	1.56	-0.59	26.436	23.215	1.56	-16.64	55.54	54.88
5550	50.39	1.76	-0.39	26.422	23.963	1.76	-16.37	55.49	54.88
5600	50.79	1.54	-0.61	26.821	23.967	1.54	-15.65	55.55	54.8
5650	49.12	1.73	-0.42	26.09	23.029	1.73	-15.96	55.67	55.06
5700	48.15	1.54	-0.61	25.473	22.68	1.54	-13.74	55.76	55.21
5750	47.42	1.05	-1.1	25.11	22.307	1.05	-13.84	56.07	55.34
5800	45.41	0.51	-1.64	24.169	22.242	0.51	-16.68	56.37	55.46
5850	43.35	0.76	-1.39	22.711	20.643	0.76	-14.32	56.94	56.08
5900	39.07	0.75	-1.4	21.027	18.039	0.75	-15.07	56.83	55.98

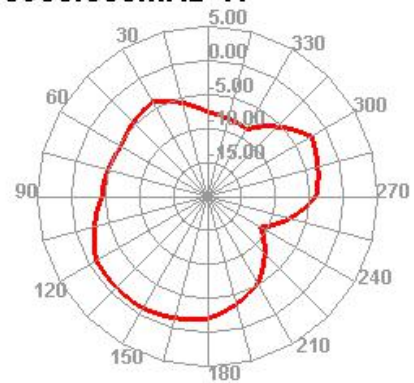
1.2.1.3、Antenna pattern



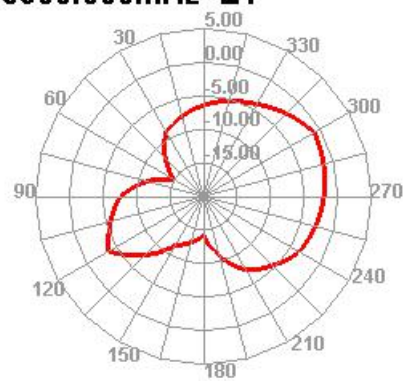
5900.000MHz



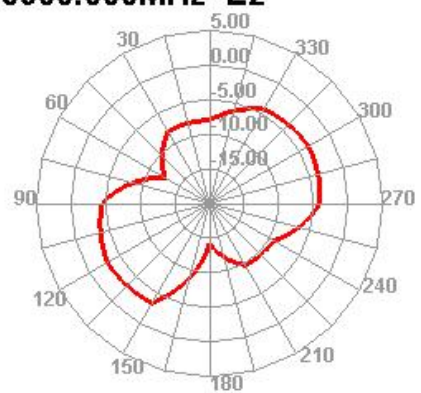
5900.000MHz H



5900.000MHz E1



5900.000MHz E2



二、 Structural specifications

2.1、 Antenna composition

5.8G Antenna is mainly composed of Copper sheet.

