



深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co.,ltd

Applicable to A99 LITE 薄款 project 4G antenna solution

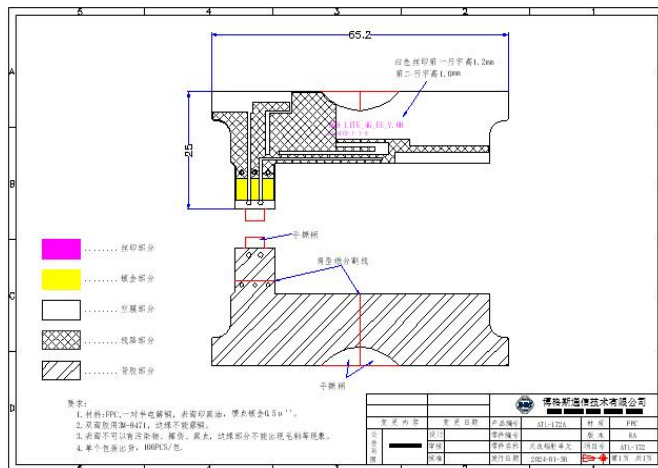
Electrical Specifications:

Frequency Band	4G	The Antenna Material	FPC
Nominal Impedance	50 Ω	Antenna Connection	IPEX III
VSWR	≤ 6.0	Working Temperature	-40℃~+85℃
Peak Gain	700-960MHz: -3.68dBi 1710-2690MHz: 3.18dB	Keep The Temperature	+19℃~+23℃
		Polarization	Linear Polarization

Test Conditions And Methods:

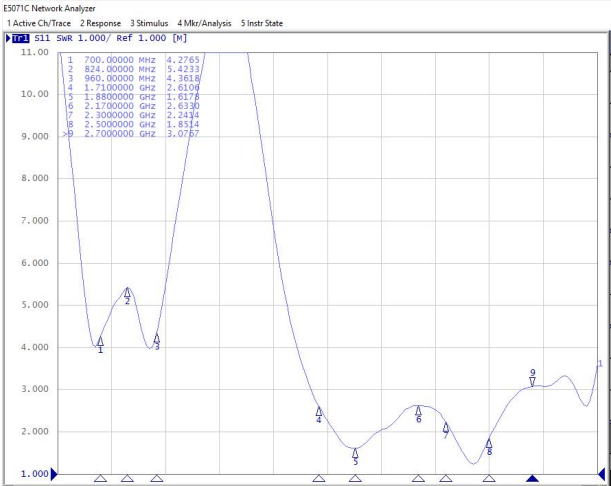
Test Instruments	Test Method	Test Result
7*4*3 microwave darkroom E5071B network analyzer	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report

Product drawings



Passive performance test parameters

Frequency (GHz)	700	960
VSWR	4.27	4.36
Frequency (GHz)	1710	2700
VSWR	2.61	3.07

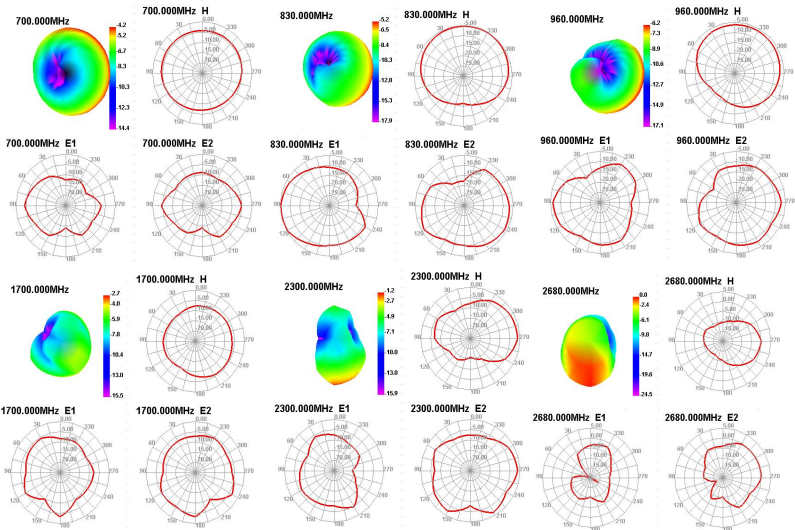


antenna passive data:

Freq (MHz)	Effi (%)	Gain (dBi)
700	15.46	-4.2
710	16.89	-4.04
720	16.75	-4.07
730	17.29	-3.87
740	17.78	-3.98
750	17.81	-3.69
760	19.9	-3.87
770	19.5	-3.98
780	18.49	-3.72
790	19.45	-3.68
800	20.1	-3.85
810	20.26	-3.84
820	17.43	-5.01
830	18.45	-5.2
840	20.02	-4.95
850	20.72	-4.69
860	21.16	-4.49
870	22.33	-4.15
880	22.69	-4.07
890	22.29	-4.15
900	21.88	-4.21
910	21.22	-4.26
920	20.02	-4.47
930	18.14	-5.1
940	17.94	-5.35
950	17.54	-5.53
960	15.7	-6.22

Freq (MHz)	Effi (%)	Gain (dBi)
1700	31.28	-2.72
1720	33.01	-2.02
1740	32.53	-1.53
1760	35.95	-0.55
1780	36.7	0.15
1800	37.42	0.7
1820	39.55	0.72
1840	40.38	0.61
1860	42.92	0.64
1880	42.89	0.07
1900	46.82	0.01
1920	48.78	0.21
1940	49.64	-0.22
1960	48.18	-0.35
1980	47.76	-0.13
2000	47.55	0.39
2020	47.11	0.66
2040	43.29	0.52
2060	42.87	0.16
2080	41.28	-0.3
2100	40.66	-0.38
2120	39.26	-0.41
2140	34.71	-0.88
2160	33.63	-0.99
2180	33.82	-0.72
2200	29.21	-1.25
2220	29.82	-1.12
2240	30.54	-0.8
2260	28.08	-1.28
2280	28.12	-1.13
2300	29.26	-1.19
2320	29.24	-0.33
2340	32.86	0.52
2360	33.5	0.94
2380	34.86	1.58
2400	35.52	2.02
2420	37.86	2.1
2440	40.09	2.38
2460	39.45	2.72
2480	47.94	2.95
2500	46.05	3.18
2520	44.43	2.59
2540	45.18	2.27
2560	44.53	1.99
2580	44.07	1.41
2600	39.99	0.7
2620	37.97	0.35
2640	36.65	0.06
2660	35.2	0.13
2680	33.49	0.02
2700	32.21	-0.41

Directional diagram



Picture of machine

