



深圳市博格斯通信技术有限公司

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Applicable to G25 4G antenna solution

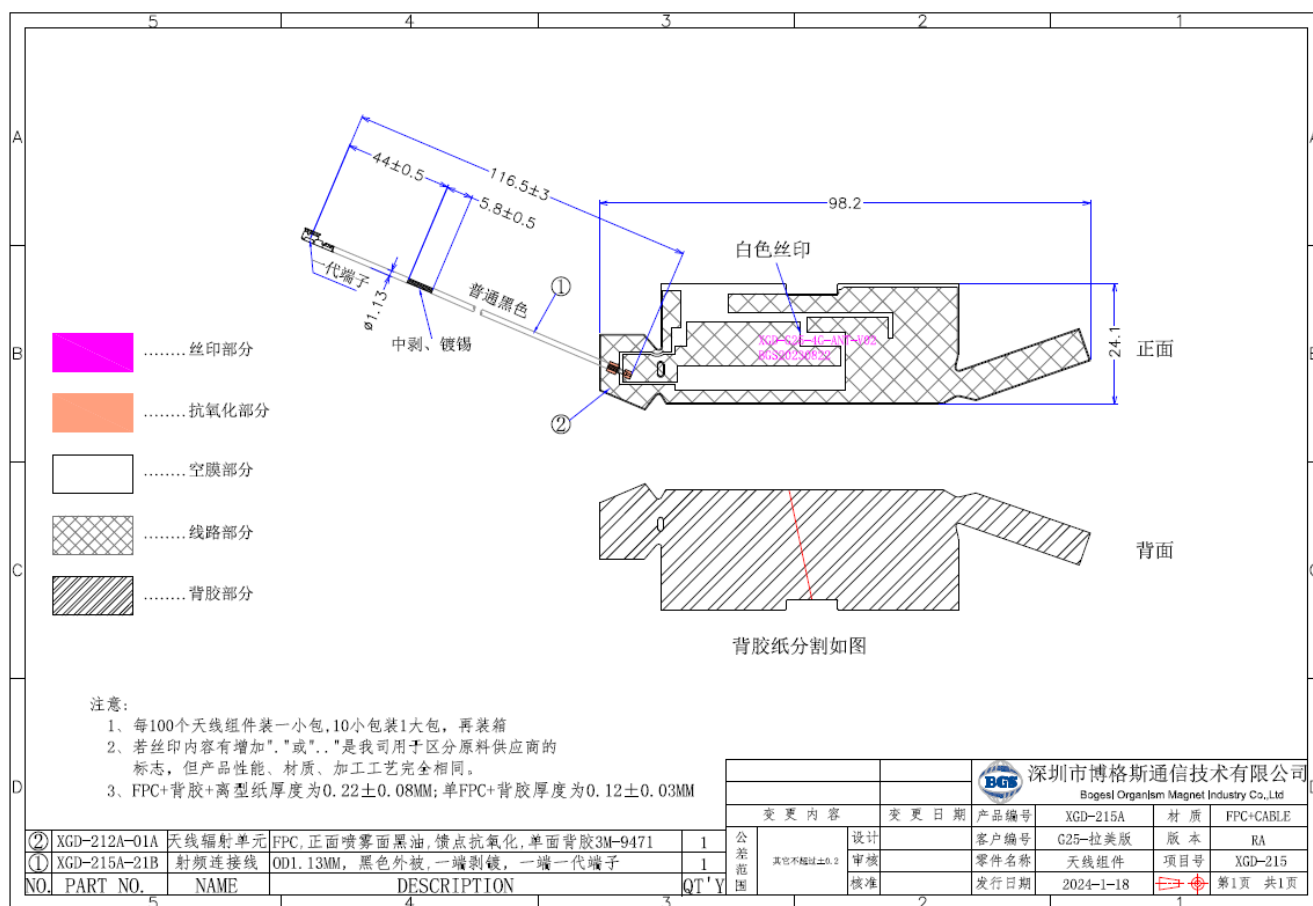
Electrical Specifications:

Frequency Band	4G	The Antenna Material	FPC
Nominal Impedance	50 Ω	Antenna Connection Mode	weld
VSWR	≤ 5.0	Working Temperature	-40℃~+85℃
Peak Gain	700-960MHz: -0.71dBi	Keep The Temperature	+19℃~+23℃
	1700-2700MHz: 2.21dBi	Polarization	Linear Polarization

Test Conditions And Methods:

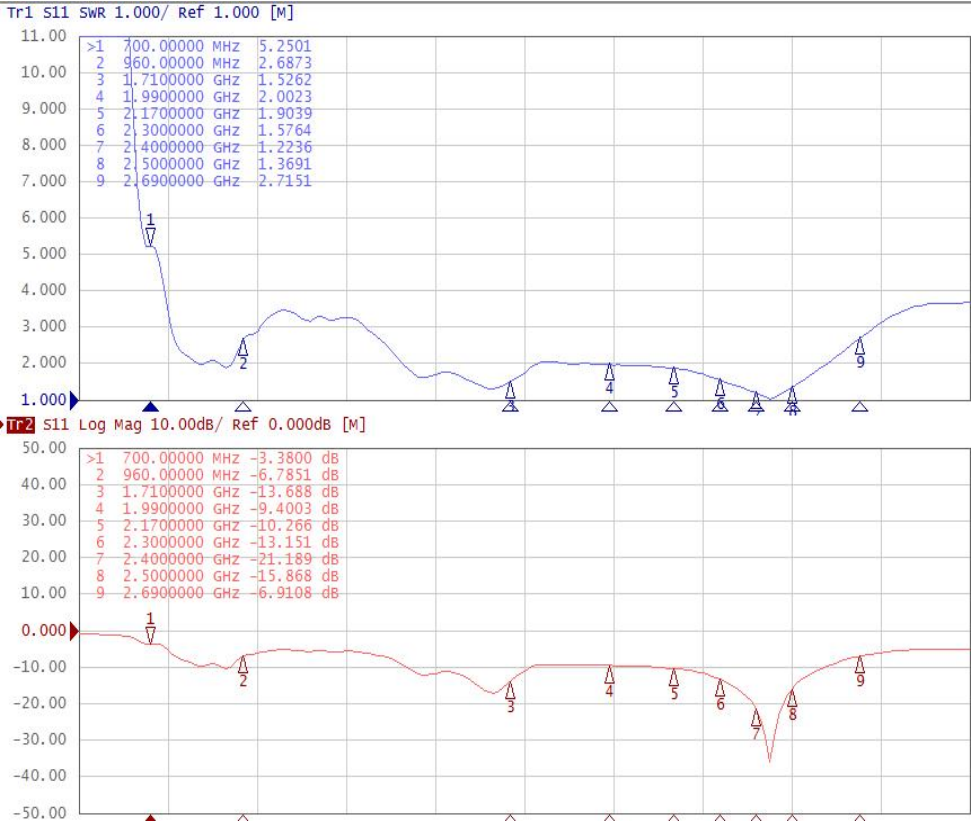
Test Instruments	Test Method	Test Result
7*4*3 microwave darkroom E5071B network analyzer 48 probe test system MT8862 comprehensive tester	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report

Product drawings



Passive performance test parameters

Frequency (GHz)	0.7	0.96	1.71	2.69
VSWR	5.25	2.6	1.52	2.71



antenna passive data:

Freq (MHz)	Effi (%)	Gain (dBi)
700	25.96	-5.29
710	26.79	-4.49
720	28.51	-2.92
730	34.74	-2.1
740	38.52	-1.72
750	39.96	-1.55
760	40.58	-1.36
770	41.15	-1.26
780	41.33	-1.26
790	41.9	-1.07
800	43.99	-0.71
810	42.95	-0.76
820	39.99	-1.09
830	36.15	-1.62
840	34.04	-1.98
850	33.27	-2.67
860	31.16	-3.21
870	31.34	-3.06
880	31.65	-2.73
890	32.41	-2.49
900	32.2	-2.33
910	32.3	-2.09
920	33.77	-2.15
930	33.69	-1.95
940	31.37	-1.93
950	29.92	-1.86
960	27.96	-2.07

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1700	51.2	-3.12	2240	54.99	1.43
1720	53.88	-2.38	2260	53.02	0.94
1740	54.75	-1.45	2280	51.56	-0.02
1760	55.37	-0.45	2300	50.45	-0.42
1780	54.4	-0.5	2320	49.04	-1.16
1800	55.44	-0.31	2340	45.44	-2.03
1820	52.6	-0.94	2360	45.35	-1.91
1840	52.37	-1.02	2380	46.78	-2.07
1860	53.13	-0.85	2400	48.18	-1.87
1880	55.85	-0.25	2420	50.26	-1.45
1900	56.92	0.47	2440	49.21	-1.73
1920	55.33	0.22	2460	48.62	-0.96
1940	56.82	0.48	2480	50.17	-0.37
1960	56.63	0.61	2500	52.18	0.15
1980	52.36	0.07	2520	54.21	0.73
2000	57.17	0.79	2540	58.7	0.86
2020	58.96	1.11	2560	57.2	0.7
2040	56.87	0.85	2580	54.59	0.37
2060	58.26	1.74	2600	52.97	0.56
2080	59.92	1.97	2620	46.02	0.28
2100	58.99	2.21	2640	45.97	0.03
2120	56.69	2.18	2660	49.11	0.14
2140	54.75	2.01	2680	44.4	-0.09
2160	52.86	1.94	2700	46.71	0.14
2180	52.44	1.48			
2200	51.17	1.49			
2220	52.97	0.98			

Directional diagram

