



# 深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co.,ltd

Applicable to **RBG-014** project **4G** antenna solution

## Electrical Specifications:

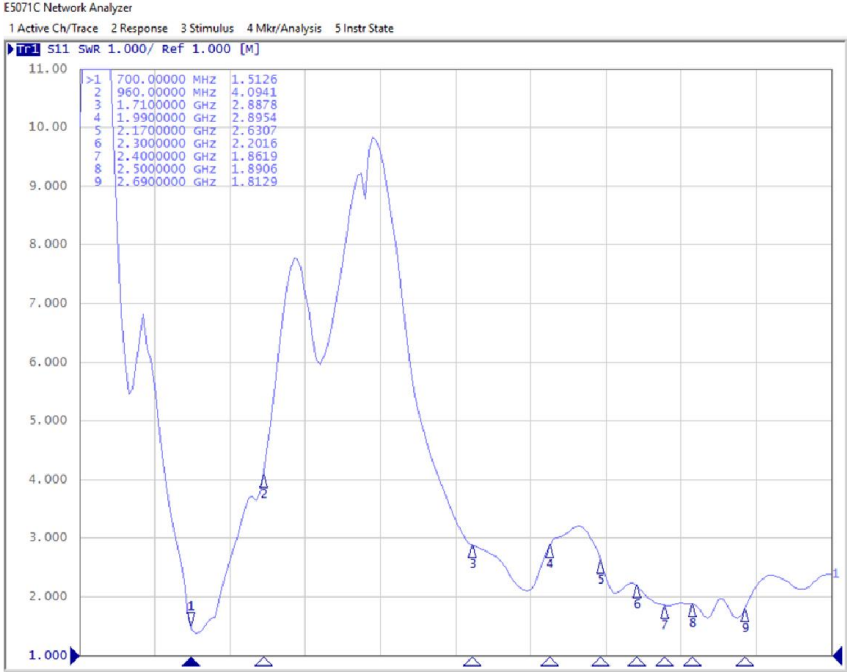
Frequency Band	4G	The Antenna Material	FPC
Nominal Impedance	50 $\Omega$	Antenna Connection Mode	IPEX I
VSWR	$\leq 4.0$	Working Temperature	-40°C ~ +85°C
Peak Gain	700-960MHz: -1.57dBi	Keep The Temperature	+19°C ~ +23°C
	1700-2700MHz: 2.98dBi	Polarization	Linear Polarization

### Test Conditions And Methods:

Test Instruments	Test Method	Test Result
7*4*3微波暗室 7*4*3 microwave darkroom E5071B网络分析仪 E5071B network analyzer 48探头测试系统 48 probe test system MT8862综合测试仪 MT8862 comprehensive tester	1. 将待测天线装配在样机上 Assemble the antenna to be tested on the prototype. 2. 把样机开机放在暗室内的测试夹具上，并与综测仪/分析仪建立连接 Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. 用测试软件测试天线无源数据 Test antenna passive data with test software.	Refer to the Test Report

# Passive performance test parameters

Frequency (GHz)	0.7	0.96	1.71	2.69
VSWR	1.5	4	2.8	1.8



antenna passive data:

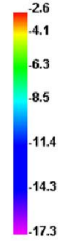
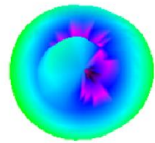
Freq (MHz)	Effi (%)	Gain (dBi)
700	21.09	-2.61
710	23.55	-3.82
720	22.61	-4.7
730	22.69	-4.4
740	23.8	-4.89
750	23.3	-4.87
760	24.8	-4.99
770	27.1	-4.44
780	30.15	-4.01
790	32.33	-3.02
800	30.59	-2.53
810	35.26	-2.15
820	35.09	-2.57
830	35.28	-2.61
840	37.93	-2.21
850	39.96	-1.9
860	37.25	-1.57
870	36.51	-2.22
880	35.3	-1.98
890	33.79	-3.06
900	31.89	-3.57
910	28.91	-4.71
920	32.02	-4.47
930	33.33	-4.5
940	29.39	-3.47
950	30.51	-2.85
960	32.46	-2.05
1700	48.43	1.82
1720	50.09	2.38

1740	44.66	2.22
1760	42.21	1.53
1780	42.65	1.07
1800	42.45	0.31
1820	43.61	0
1840	44.95	0.19
1860	50.42	1
1880	46.13	1.68
1900	51.42	2.23
1920	50.66	2.66
1940	46.1	2.87
1960	44.03	2.78
1980	41.21	2.24
2000	39.47	1.75
2020	41.85	1.55
2040	40.36	1.21
2060	46.87	2.11
2080	47.41	2.29
2100	49.49	2.37
2120	51.73	2.66
2140	51.26	2.71
2160	51.83	2.77
2180	51.19	3
2200	46.32	2.81
2220	47.83	2.98
2240	44.85	2.55
2260	42.83	2.17
2280	43.68	1.88
2300	43.13	1.92
2320	49.57	2.64
2340	54.9	2.95
2360	53.75	3.42
2380	56.99	3.19

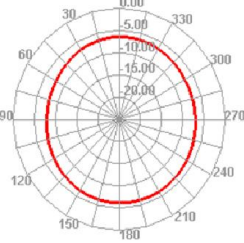
2400	53.61	2.45
2420	53.59	1.49
2440	48	0.81
2460	35.43	-0.5
2480	34.02	-0.18
2500	31.3	-0.73
2520	32.39	-1.29
2540	34.68	-1.1
2560	34.59	-0.3
2580	42.85	0.24
2600	49.76	1.27
2620	48.87	1.1
2640	54.86	1.67
2660	60.86	2.57
2680	56.2	2.58
2700	57.31	2.62

# Directional diagram

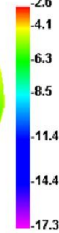
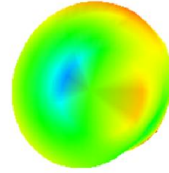
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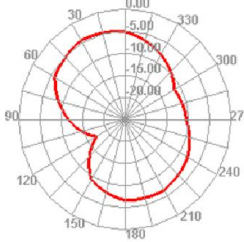
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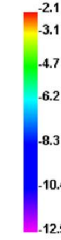
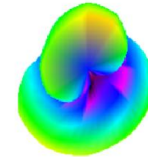
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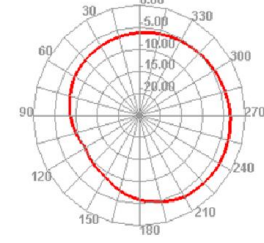
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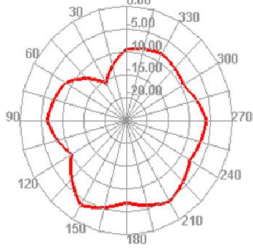
960.000MHz



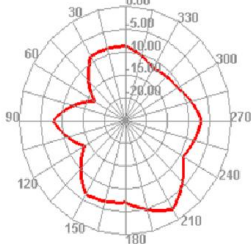
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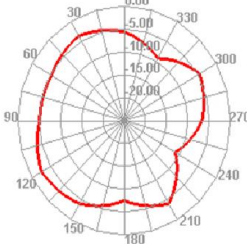
700.000MHz E1



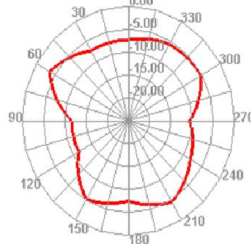
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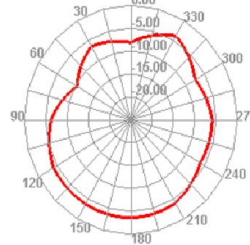
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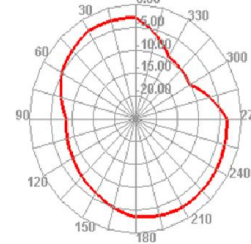
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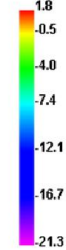
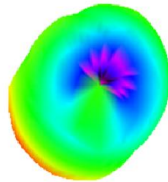
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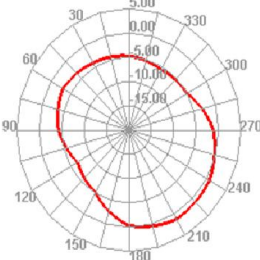
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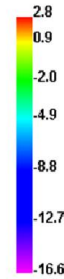
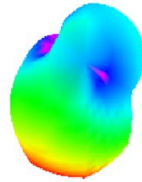
1700.000MHz



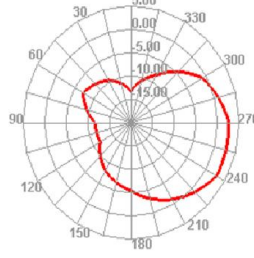
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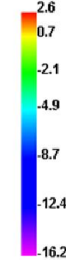
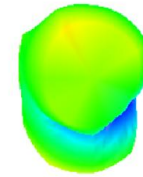
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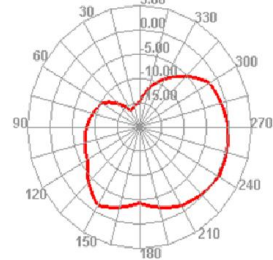
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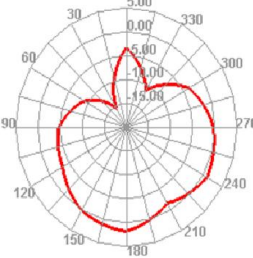
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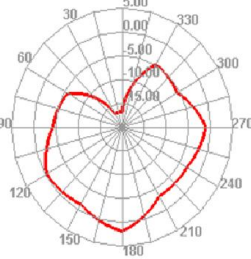
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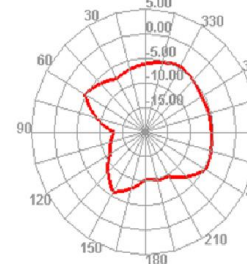
1700.000MHz E1



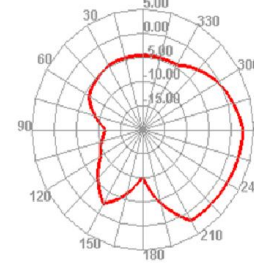
1700.000MHz E2



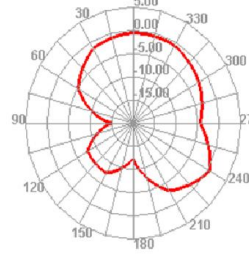
2200.000MHz E1



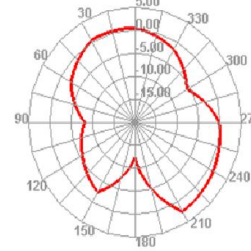
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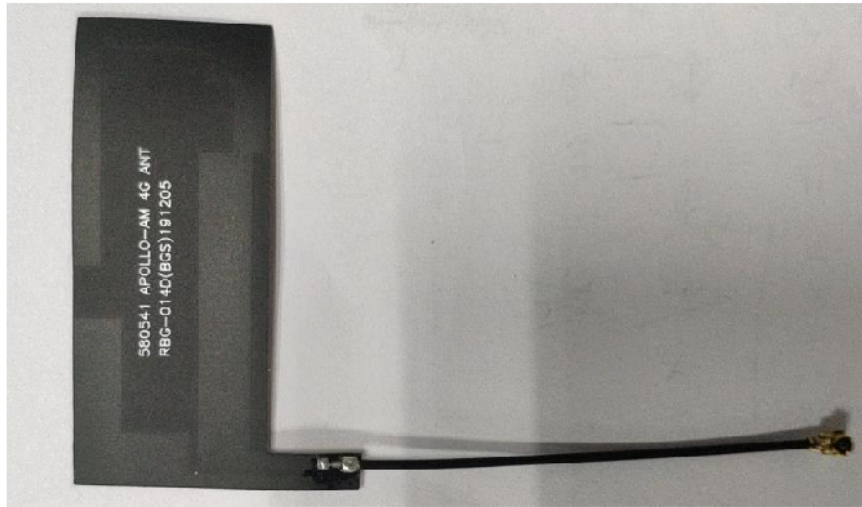


2700.000MHz E1



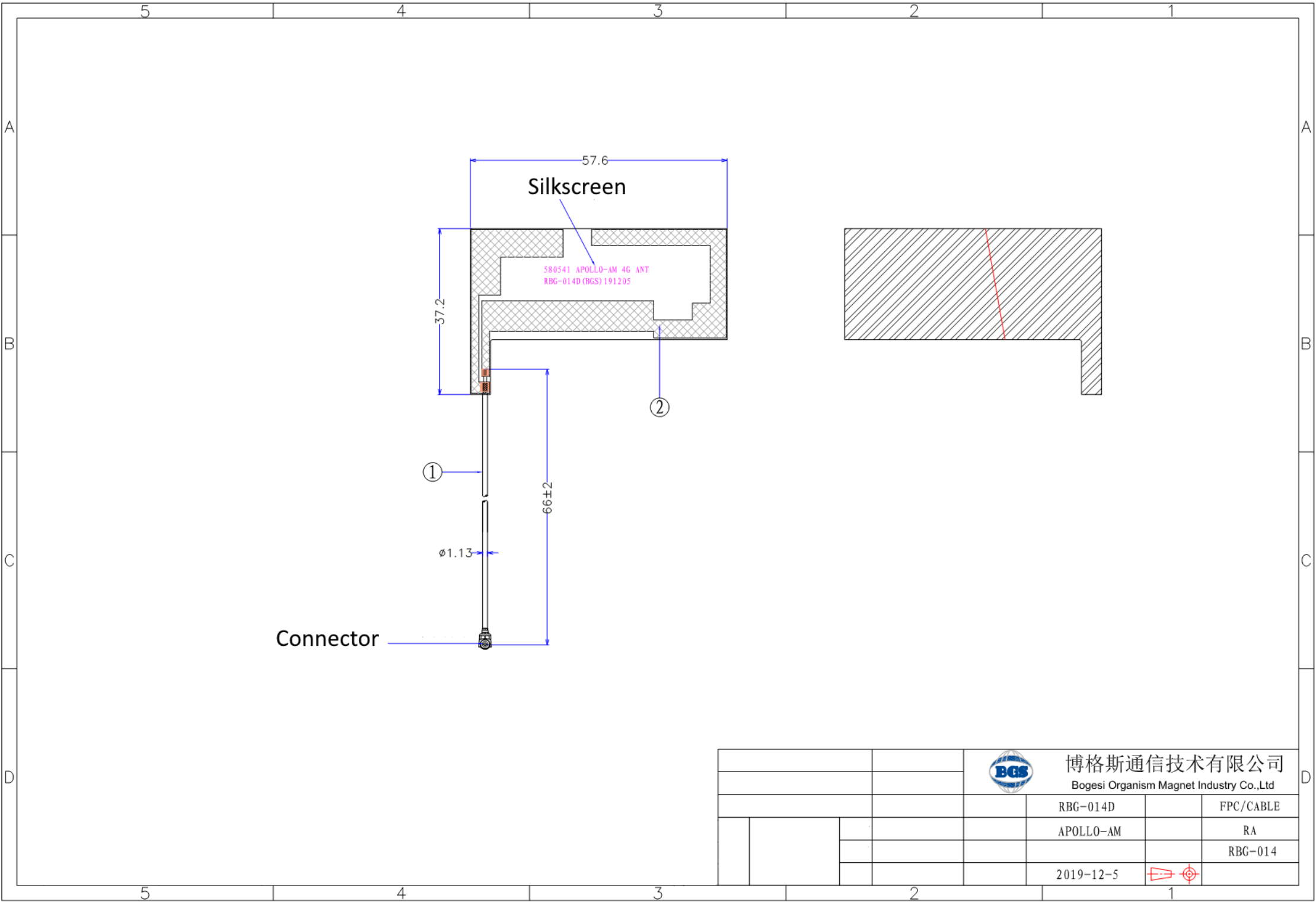
2700.000MHz E2





Connector





Connector

Silkscreen

580541 APOLLO-AM 4G ANT  
RBG-014D (BGS) 191205



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Bogesi Organism Magnet Industry Co.,Ltd

			RBG-014D	FPC/CABLE
			APOLLO-AM	RA
				RBG-014
			2019-12-5	