

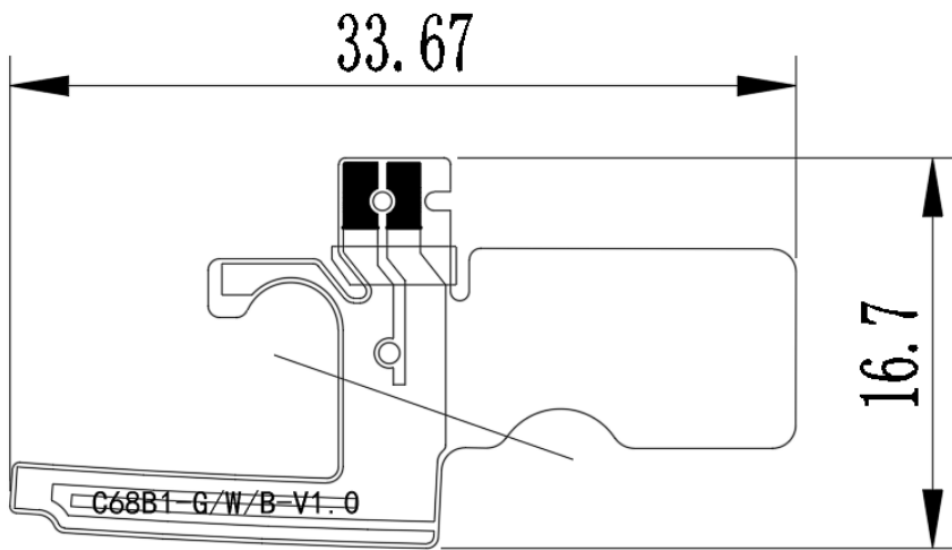
Shenzhen 3Good Wireless Technology Co., Ltd

Specification

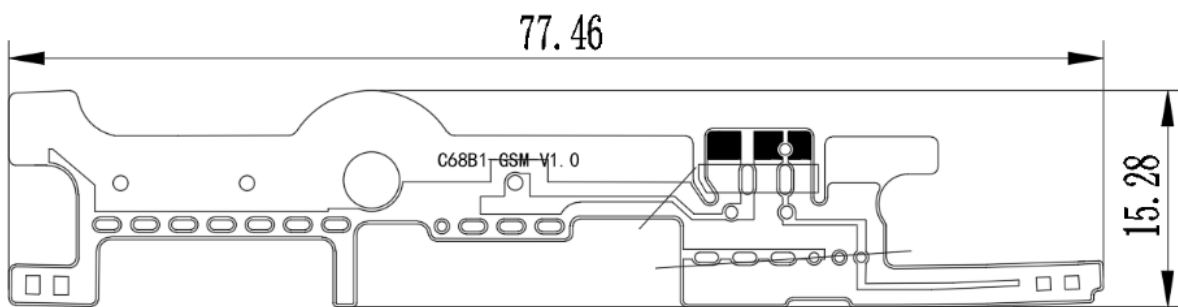
客户 Customer	/	规格型号 Specs	C68B2
三好料号 Part Number	C68B2-01 C68B2-02 C68B2-03	频 段 Frequency Band	BT&2.4G WIFI:2400~2483.5MHZ GSM850/900/1800/1900 WCDMA2/4/5/8 B2.3.4.5.7.8.12.13.17.26.28.66.38
颜 色 Color	black	版 本 Edition	REV:A1
Join hands to create the future			

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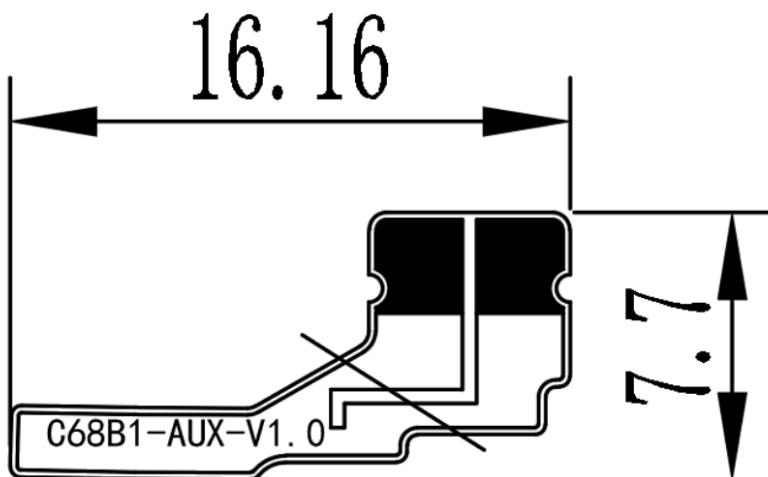
Three in one antenna



Main set antenna



Diversity antenna

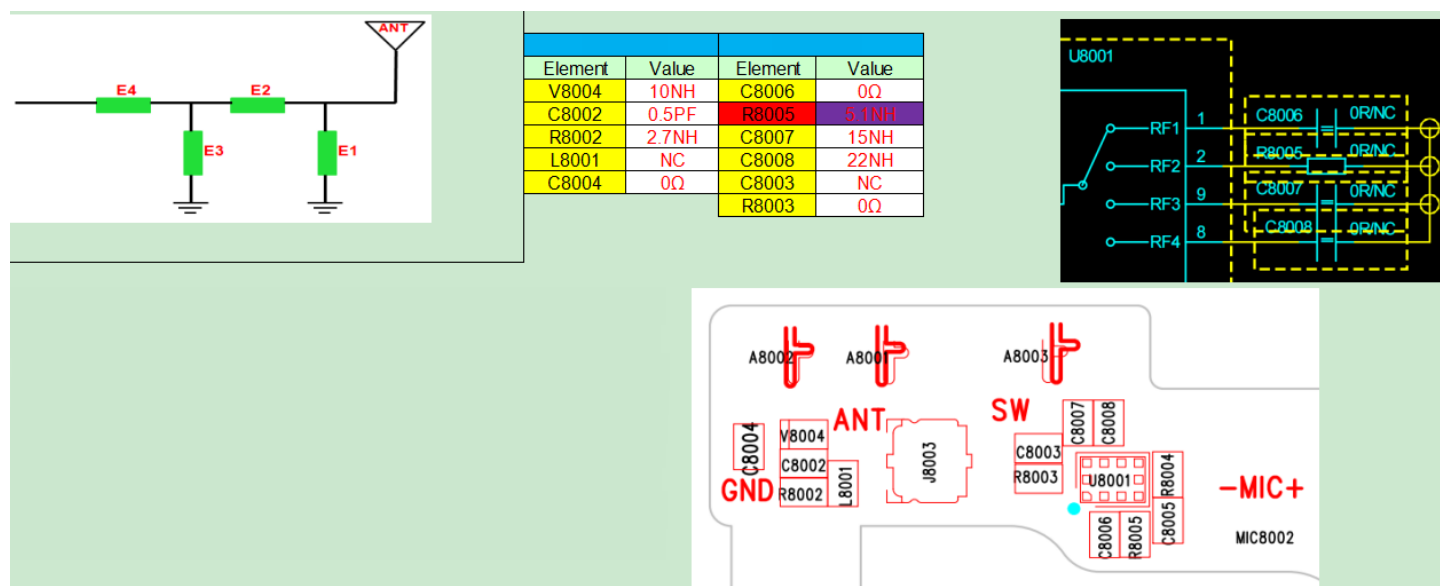


1、Electrical performance

(1).Specifications

The operating frequency band of C68B1 antenna is 699~960MHZ and 1710~2700MHZ, in which resonance occurs.

(2).Matching circuit of antenna



Structure of antenna: FPC

3、Test of parameters

(1).Test settings

The connection of VSWR test device is:

E5071B network analyzer → 50 Ohmic coaxial Cable → 110mm Long copper tube → Test fixture

Treatment of test fixture:

Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to the copper tube with a choke, and then connect other devices in turn.

Passive parameters of main antenna:

工作频段(Working frequency band): 699~960MHZ, 1710~2700MHZ

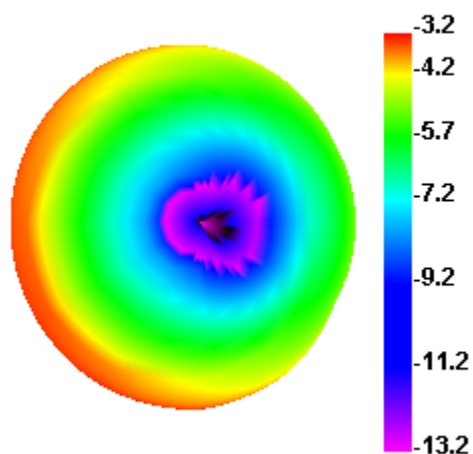
GSM850/900/1800/1900

WCDMA2/4/5/8

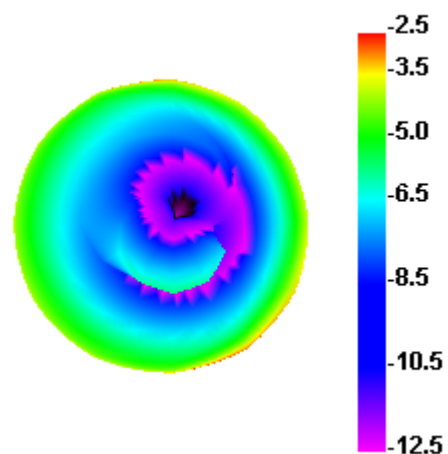
B2/3/4/5/7/8/12/13/17/26/28/66/38

频段 Band	gain 增益 (dBi)
GSM850/WCDMA-B5/LTE-B5/26	-2.63
GSM900/WCDMA-B8/LTE-B8	-2.59
DCS1800/LTE-B3	0.85
PCS1900/WCDMA-B2/LTE-B2	1.57
WCDMA-B4/LTE-B4/66	1.33
LTE-B12/17/28	-2.87
LTE-B13	-2.72
LTE-B7	0.69
LTE-B38	-1.27
GPS	2.25
2.4G WIFI/BT	1.28

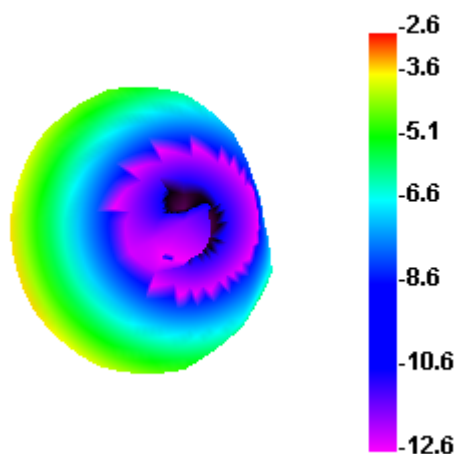
700.000MHz



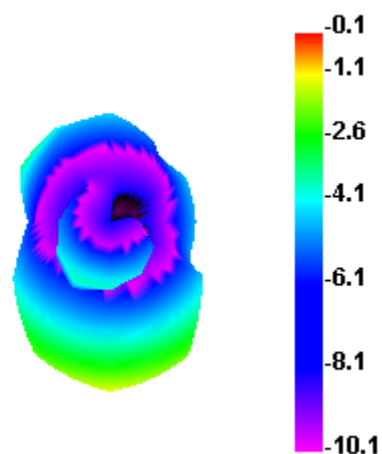
820.000MHz



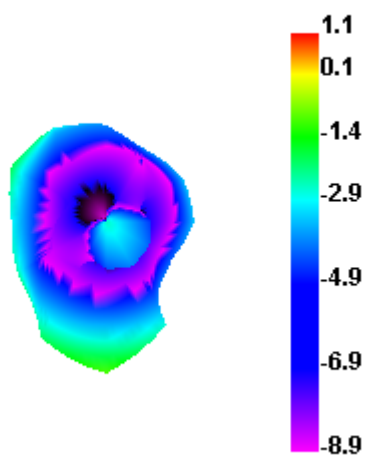
900.000MHz



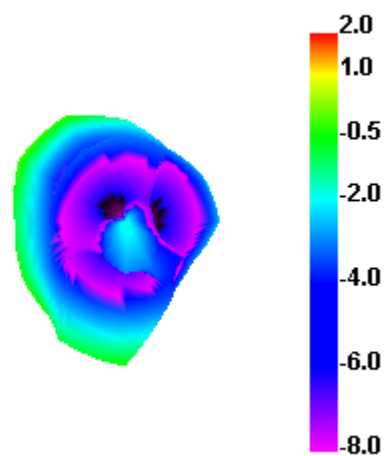
1710.000MHz



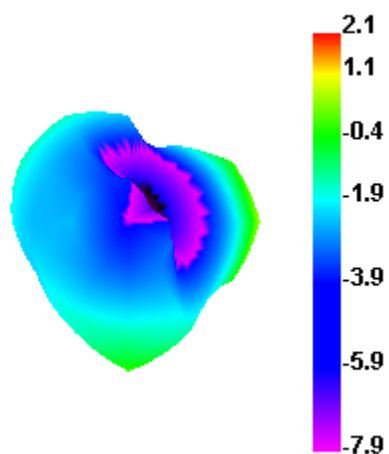
1800.000MHz



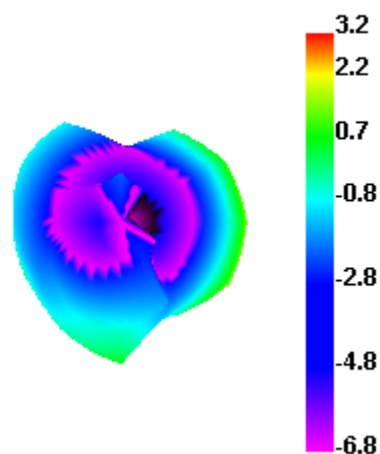
1900.000MHz



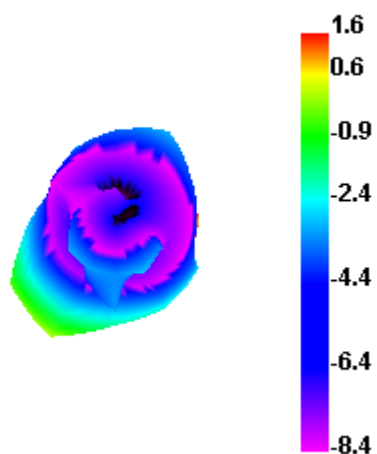
2100.000MHz



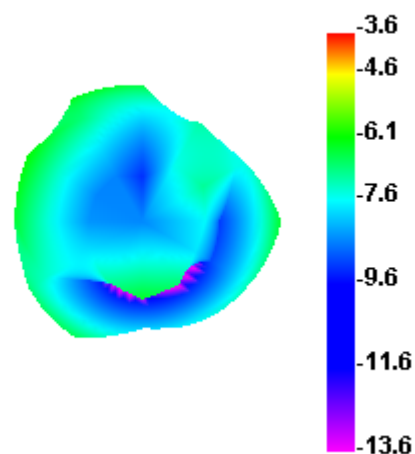
2200.000MHz



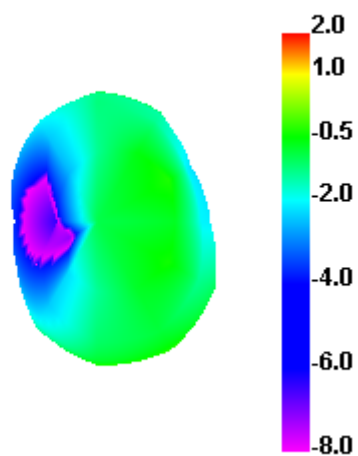
2500.000MHz



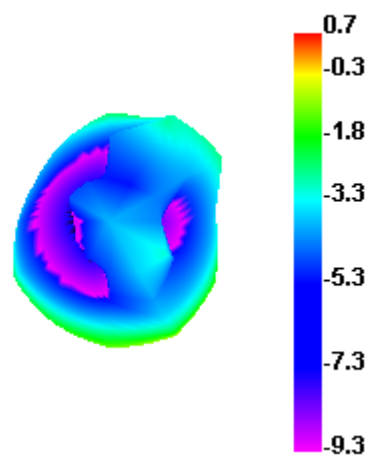
2690.000MHz



1550.000MHz



2400.000MHz



GPS/WIFI/BTPassive parameters of antenna:

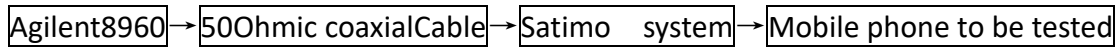
工作频段(Working frequency band): 1560~1580MHZ, 2400~2500MHZ

2.2.test result

2G	CH	TRP	TIS		4G	CH	TRP	TIS
GSM850	128	26.22			FDD-B2	18650	17.35	
	190	26.1				18900	19.02	
	251	26.35	-101.72			19150	19.76	-93.3
EGSM900	1	25.03			FDD-B3	19250	16.63	
	62	25.84				19575	17.05	
	124	26.03	-100.37			19900	16.52	-92.79
DCS1800	512	24.69			FDD-B4	20000	16.25	
	698	24.12				20175	16.62	
	885	25.13	-104.04			20350	16.87	-94.93
PCS1900	512	24.72			FDD-B5	20450	15.67	
	661	25.56				20525	16.29	
	810	25.49	-105.5			20600	16.35	-90.69
3G	CH	TRP	TIS		FDD-B7	20800	15.71	
WCDMA2	9262	16.3				21100	16.36	
	9400	17.82				21400	16.05	-88.21
WCDMA4	9538	18.86	-105.99		FDD-B8	21500	15.96	
	1537	16.4				21625	16.69	
	1625	16.94				21750	15.47	-88.21
WCDMA5	1738	17.02	-106.57		FDD-B12	23060	14.94	
	4132	15.63				23095	15.41	
	4183	16.29				23130	15.67	-93.44
WCDMA8	4233	16.45	-101.86		FDD-B13	23230	15.67	-92.9
	2937	15.84			FDD-B17	23780	15.33	
	3013	16.63				23790	15.45	
	3088	15.73	-102.28			23800	15.56	-92.15
					FDD-B26	26715	15.53	
						26865	16.63	
						27015	16.94	-92.33
					FDD-B28	27260	15.13	
						27435	15.27	
						27610	16.06	
						27410	15.83	
						27510	16.09	-88.52
					FDD-B66	132022	15.92	
						132322	16.73	
						132622	16.21	-96.28
					TDD-B38	37850	16.72	
						38000	16.13	
						38150	16.39	-87.54

4、 Active test setup

The active test devices are sequentially connected as follows:



1.Test site

3Good microwave anechoic chamber: the test frequency range is 400MHz - 6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than - 90 dB.

2.test result

The maximum radiation power and maximum receiving sensitivity reflect the maximum power radiation value and the optimal receiving performance of the antenna in the entire radiation space. TRP and TIS reflect the average radiation power and average receiving sensitivity of the antenna, that is, the overall receiving performance of the antenna.

2-1.Three in one test results



2-2.蓝牙测试（Bluetooth Test）：

10 meters online listening to music, making calls smoothly without interruption