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# ANT Specification

Customer		Specs	Astro A65
Part Number	Astro A65	Frequency Band	BT&2.4G WIFI:2400~2483.5MHZ 5G WIFI:5150~5850MHZ GSM850/900/1800/1900 WCDMA1/2/4/5 LTE B2/4/5/12/17/25/26/41/66/71
Color	black	Edition	
Salesperson		Design	guanbingkun
Structure	Lifulun	Confirm	zhouwu
Date		Signing Date	
Customer confirmation:			
Join hands to create the future			

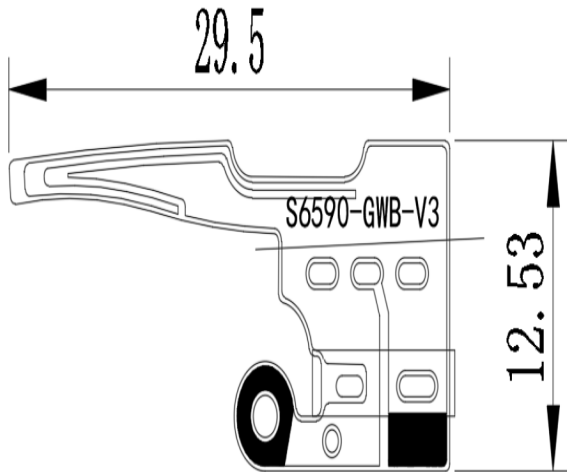
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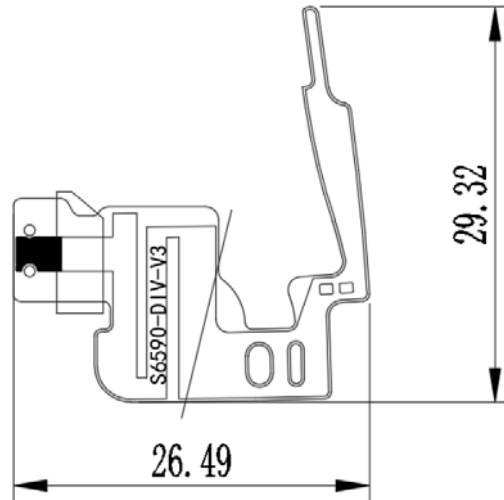
## A. Product specifications

The report mainly provides parameter tests of S6590 BM antenna performance. S6590 BM antenna is 4G antenna. (As shown in the figure below)

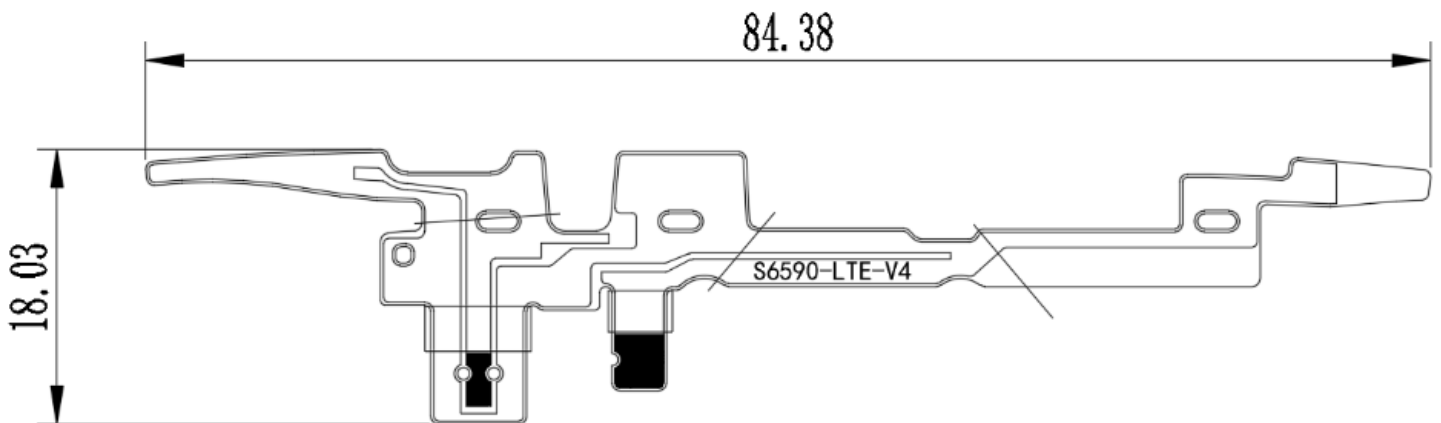
### Three in one antenna



### Diversity antenna



### Main set antenna



## B. Electrical performance

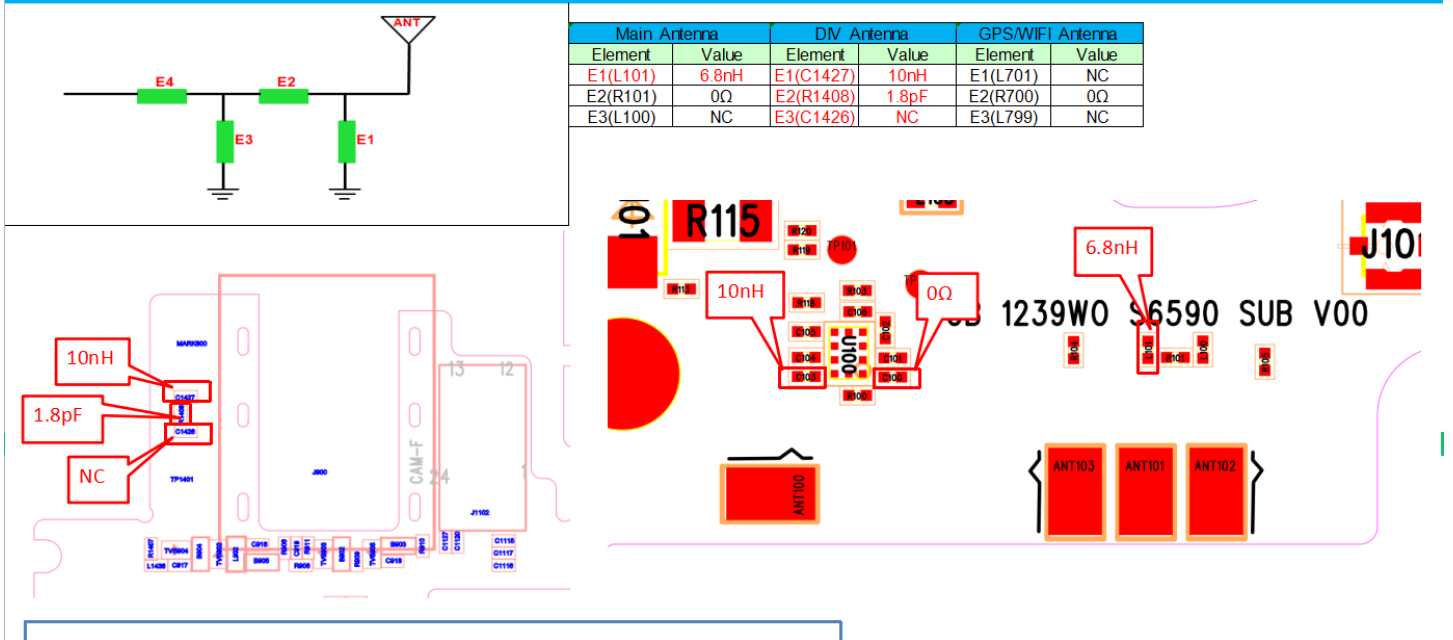
### 1. Specifications

The operating frequency band of S6590 BM antenna is 699~960MHZ and 1710~2700MHZ, in which resonance occurs.

### 2. Matching circuit of antenna

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## Matching circuits (匹配电路)



(Main antenna switch logic) RF1:0Ω ,

GSM850/GSM900/PCS1900/DCS1800+W1/2/4/5+LTEB2/4/5/7/25/26/41/66 RF3:10nH,

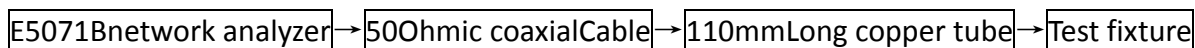
LTE-B12/13/71

Structure of antenna: FPC

## C. Test of parameters

### 1. Test settings

The connection of VSWR test device is:



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:**

Working frequency band: 699~960MHZ, 1710~2700MHZ

GSM850/900/1800/1900

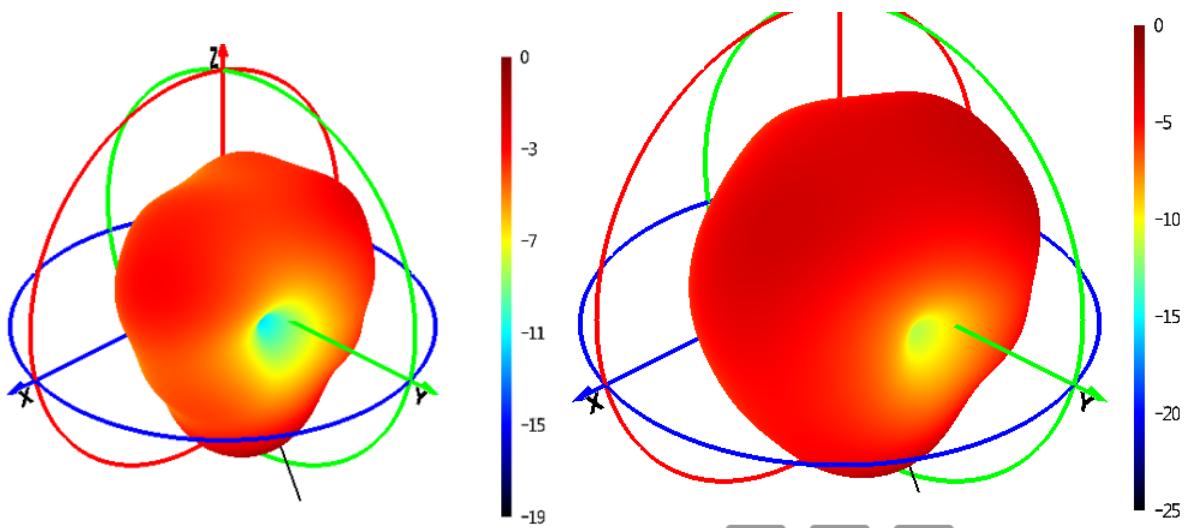
WCDMA1/2/4/5

LTE B2/4/5/12/17/25/26/41/66/71

Gain			
Band	gain (dBi)	Band	gain (dBi)
GSM850,WCDMA-B5,LTE-B5/B26	-0.27	PCS1900,WCDMA-B1/B2,LTE-B1/B2/25	0.67
GSM900	-0.17	LTE-B41	0.88
DCS1800,WCDMA-B4,LTE-B4/B66	0.58	LTE-B12/B17	-0.57
LTE-B71	-0.67		

600

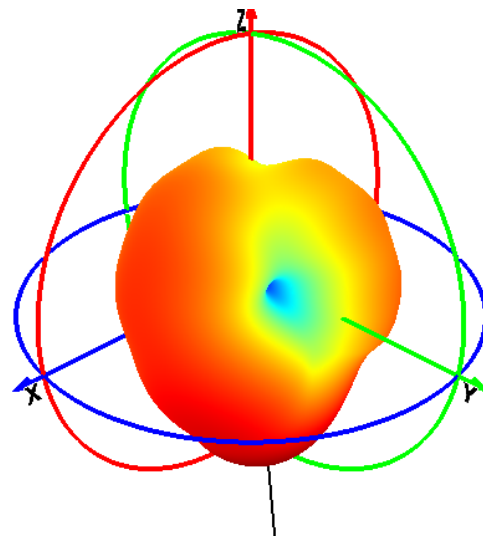
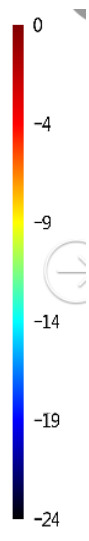
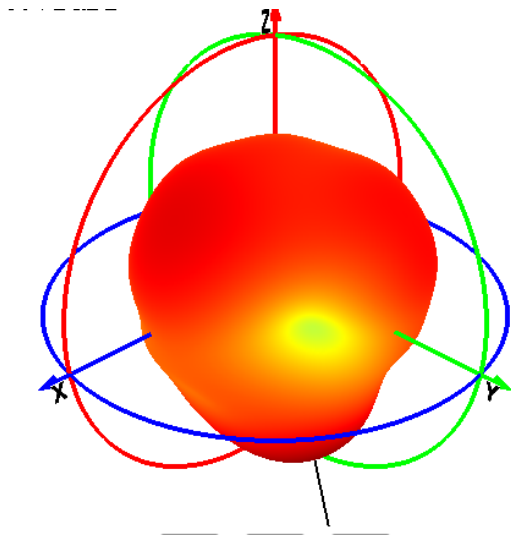
700



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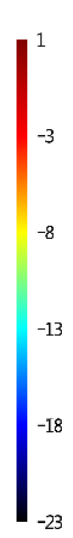
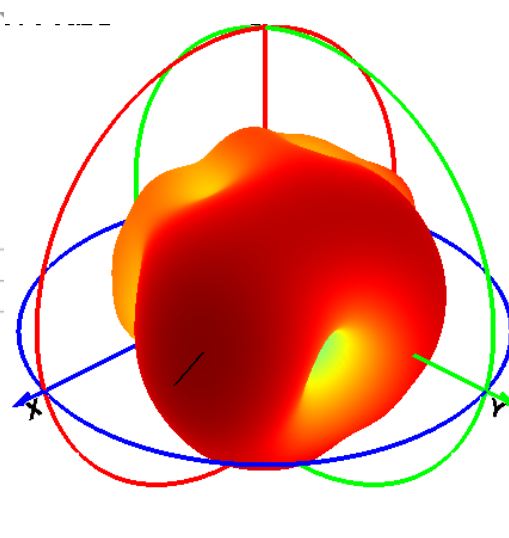
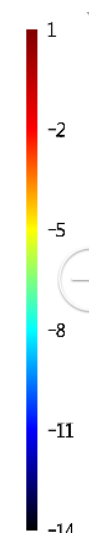
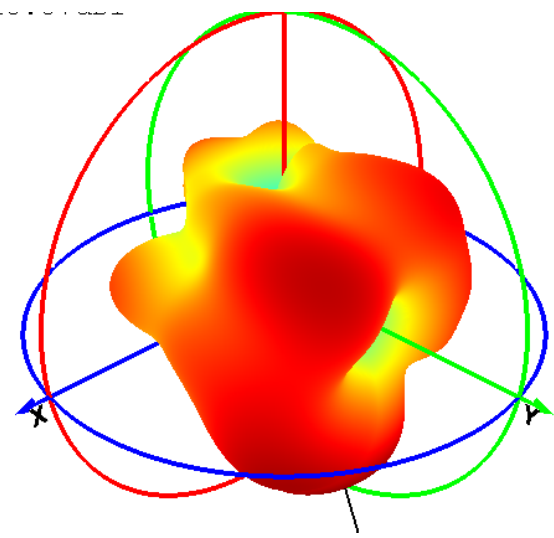
800

900



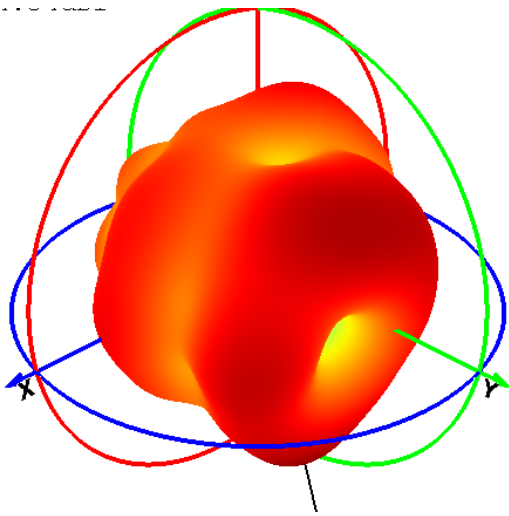
1700

1900

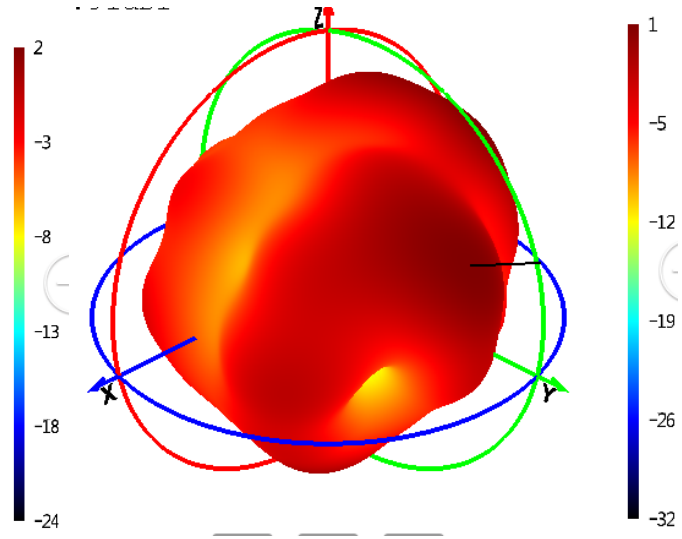


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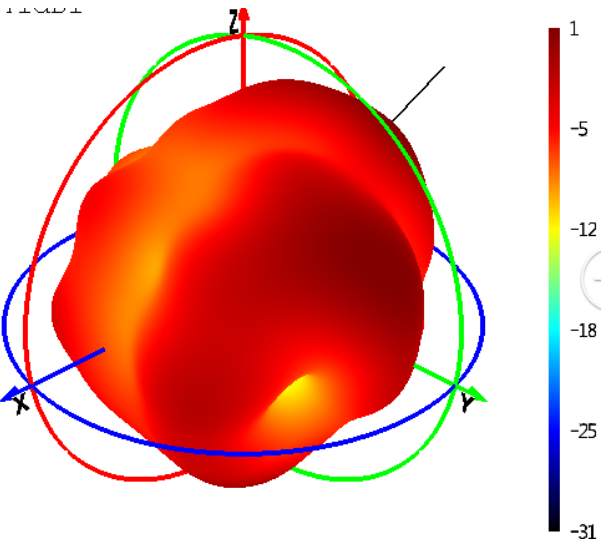
2300



2400



2700

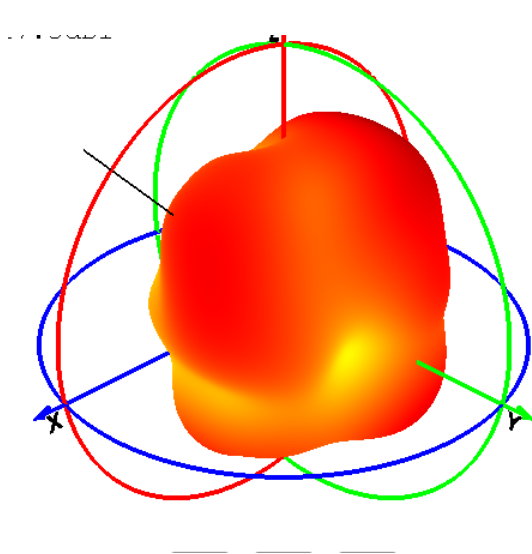


## GPS/WIFI/BTPassive parameters of antenna:

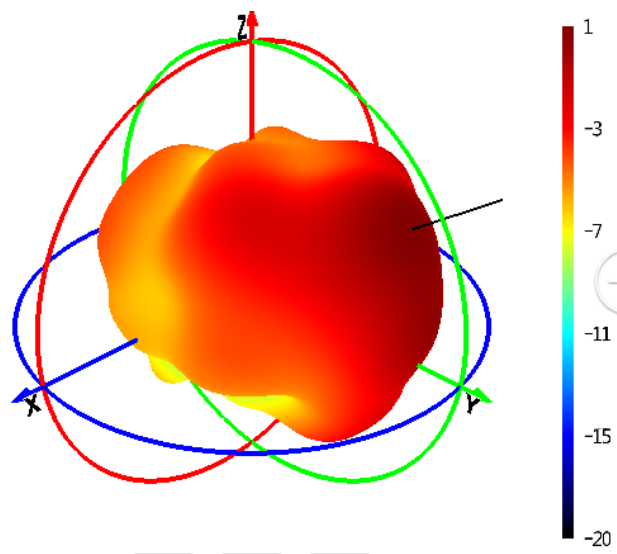
Working frequency band: 1560~1580MHZ, 2400~2500MHZ,5150~5850MHZ

Gain			
Band	gain (dBi)	Band	gain (dBi)
GPS	1.06	2.4G WIFI/BT	0.88
5G WIFI	-0.57		

GPS



2.4G WIFI/BT



5G WIFI

