
ANT Specification

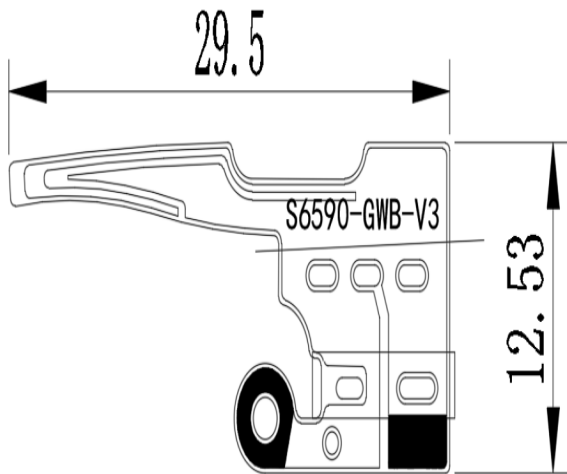
Customer		Specs	Astro A65
Part Number	Astro A65	Frequency Band	BT&2.4G WIFI:2400~2483.5MHZ 5G WIFI:5150~5850MHZ GSM850/900/1800/1900 WCDMA1/2/4/5 LTE B2/4/5/12/17/25/26/41/66/71
Color	black	Edition	
Salesperson		Design	guanbingkun
Structure	Lifulun	Confirm	zhouwu
Date		Signing Date	
Customer confirmation: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

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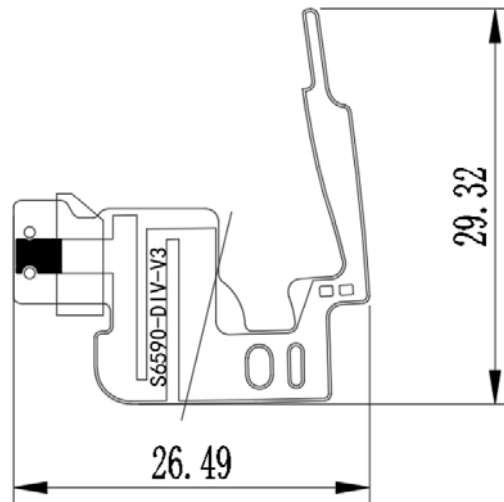
A. Product specifications

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

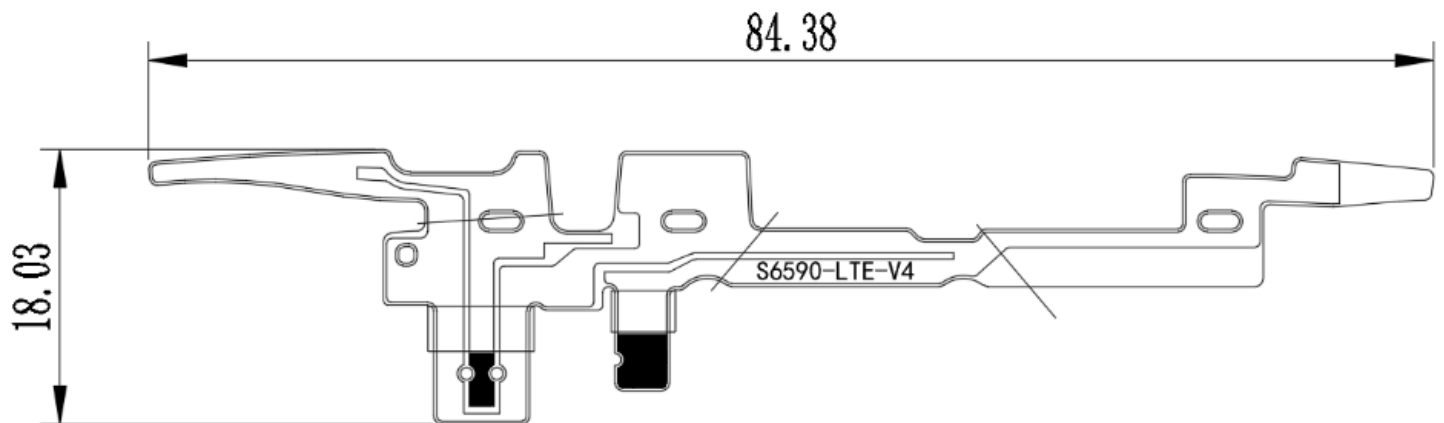
Three in one antenna



Diversity antenna



Main set antenna



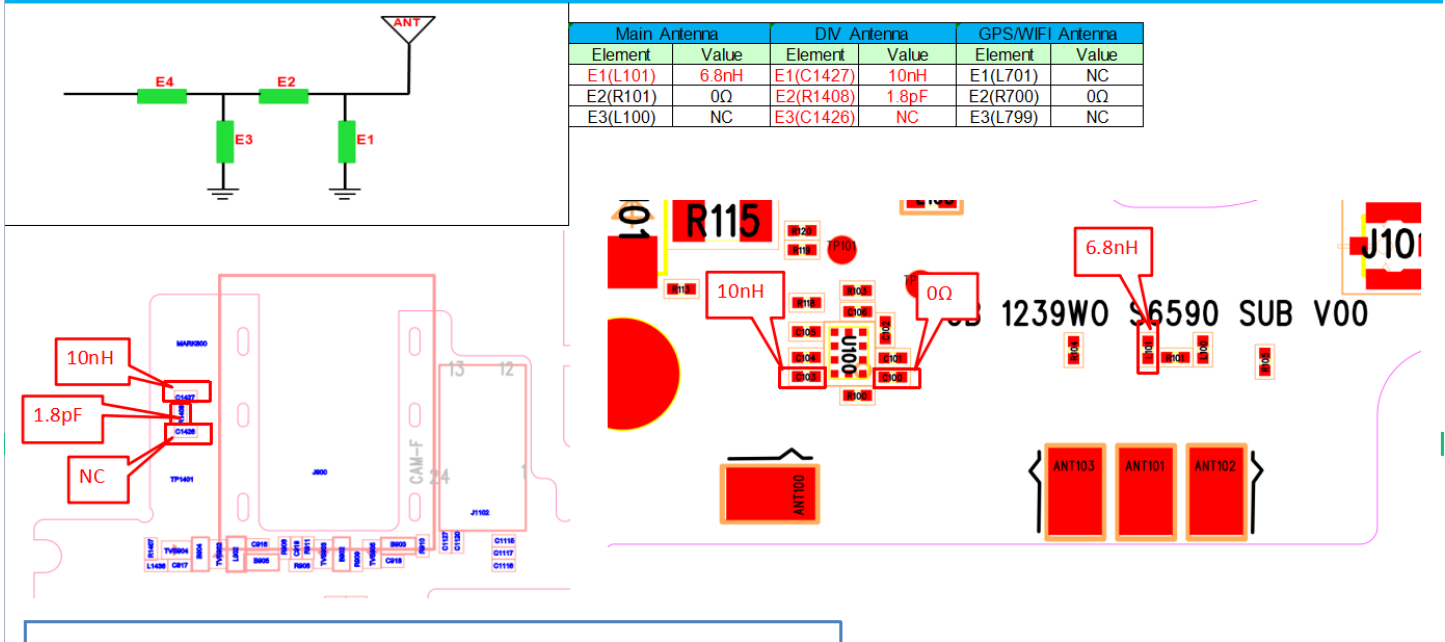
B. Electrical performance

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

Matching circuits (匹配电路)



(Main antenna switch logic) RF1:0 Ω ,

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

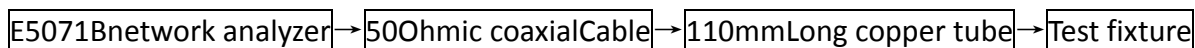
LTE-B12/13/71

Structure of antenna: FPC

C. Test of parameters

1.Test settings

The connection of VSWR test device is:



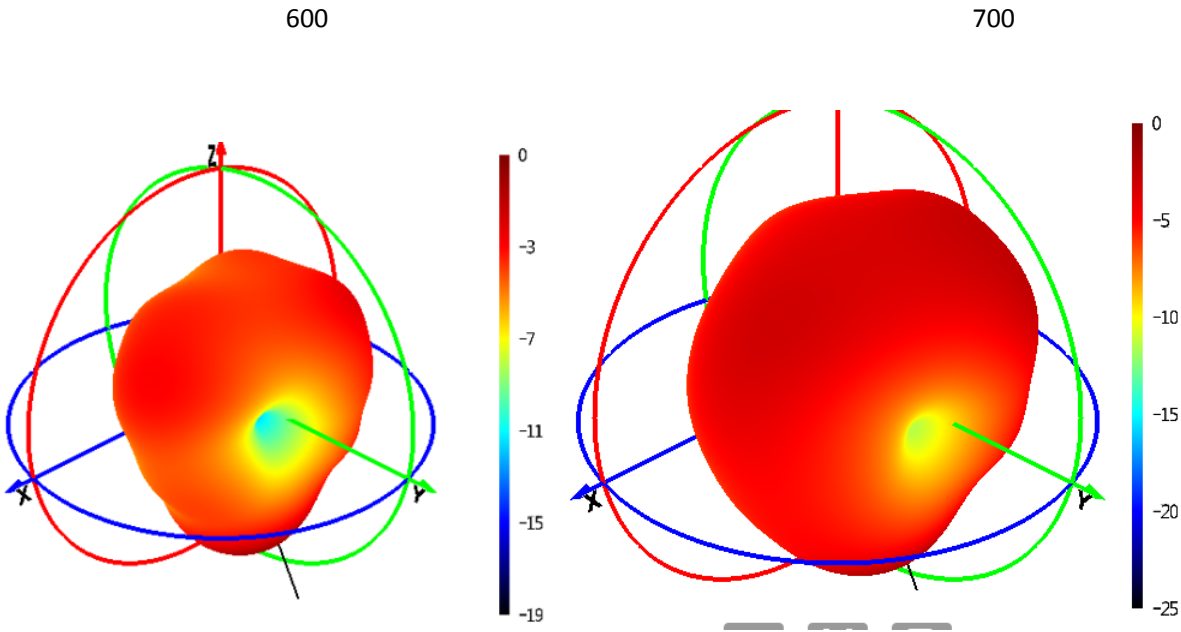
Treatment of test fixture:

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:

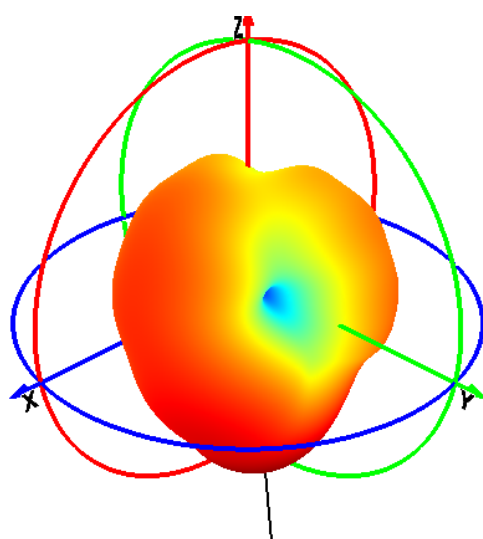
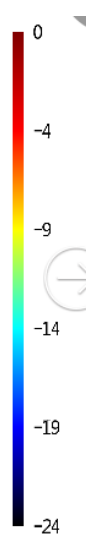
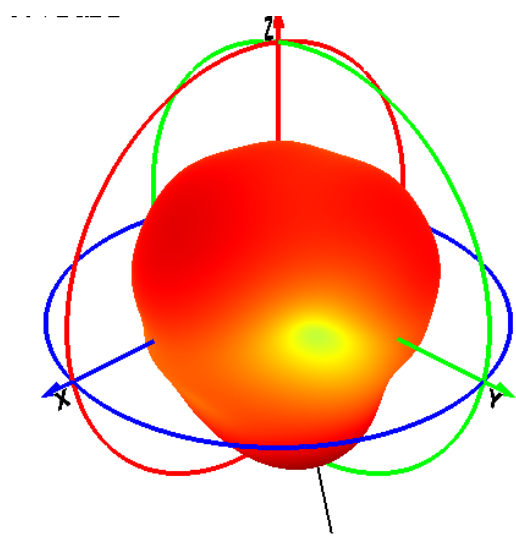
Working frequency band: 699~960MHZ, 1710~2700MHZ
GSM850/900/1800/1900
WCDMA1/2/4/5
LTE B2/4/5/12/17/25/26/41/66/71

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		



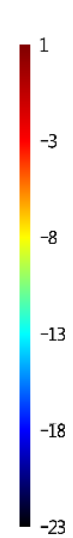
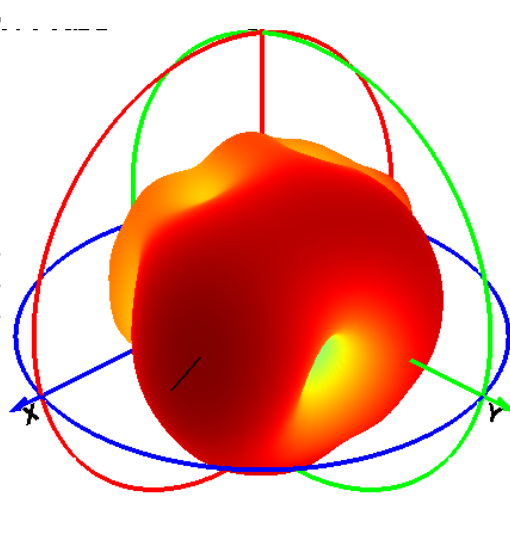
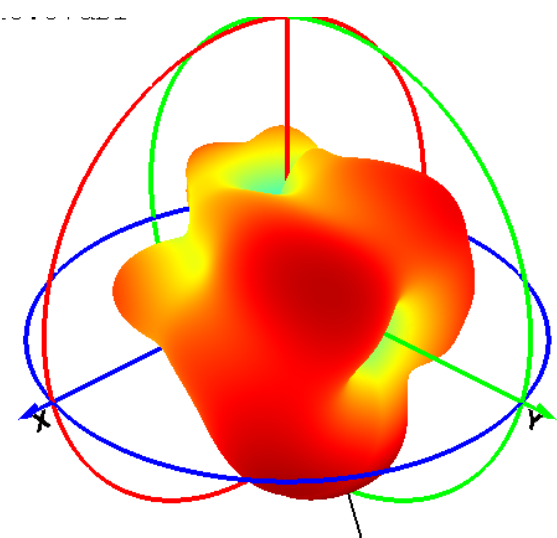
800

900

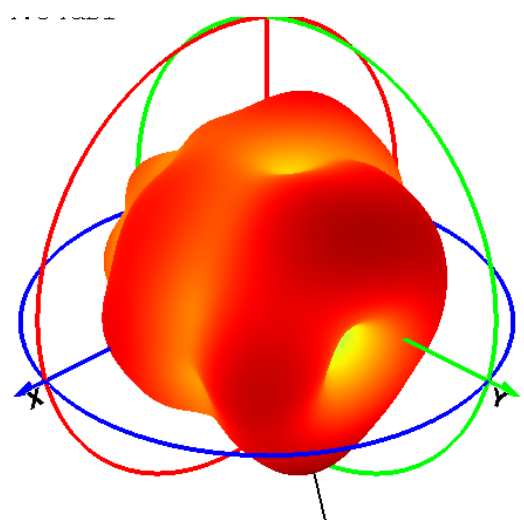


1700

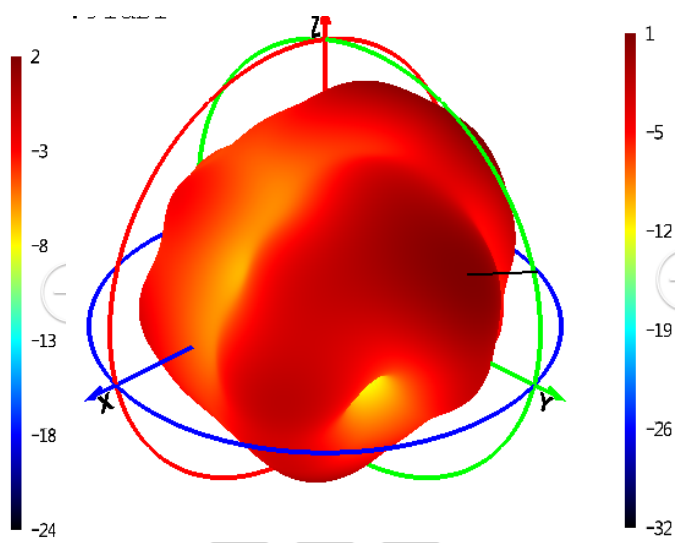
1900



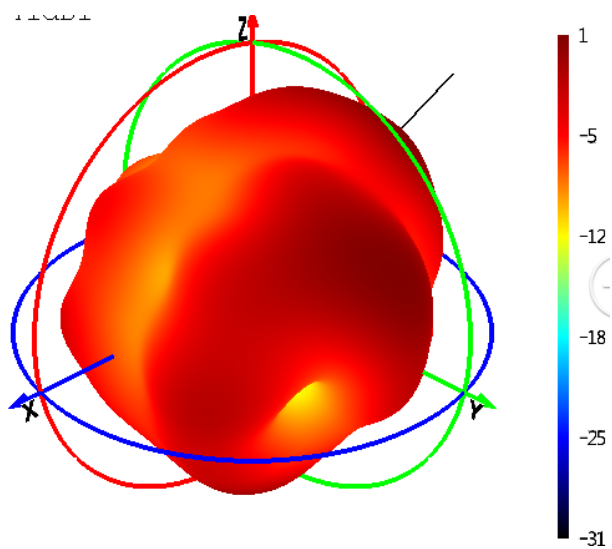
2300



2400



2700

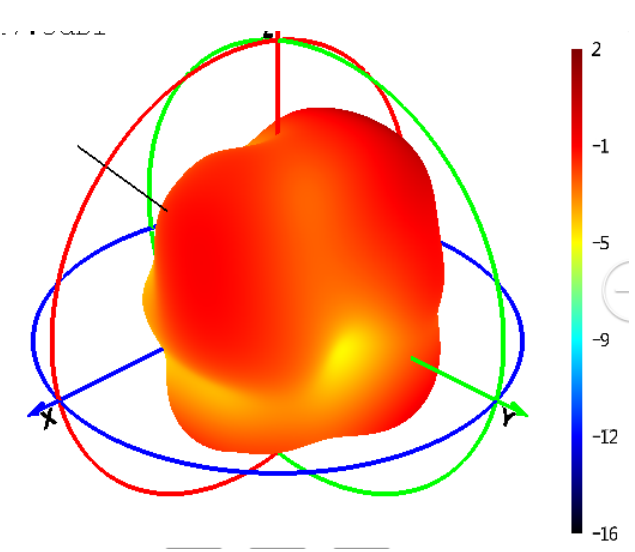


GPS/WIFI/BTPassive parameters of antenna:

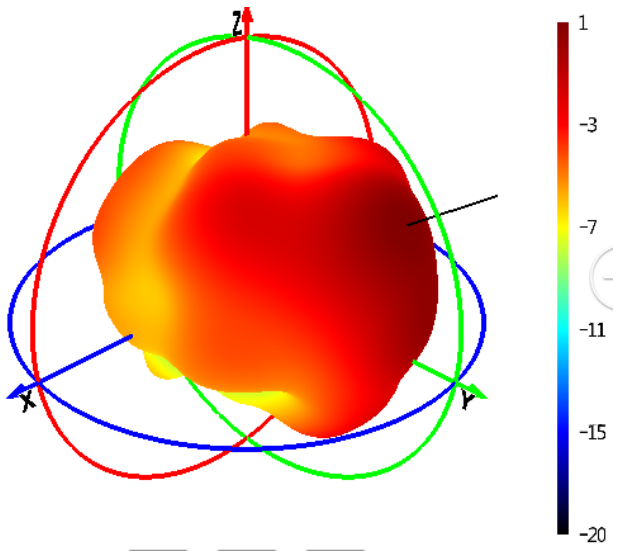
Working frequency band: 1560~1580MHZ, 2400~2500MHZ,5150~5850MHZ

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

