



天|线|制|造|商

深圳市云希科技有限公司

Shen zhen Vic-Proud Technogy Co.,Ltd

Antenna specification for approval

Customer name: VTU

Model : VT988

Antenna type: 4G antenna

Material: FPC

Color : Black

Material Number: G1881B-1B2-A G1707A-1B2-A

Production date: 2024-06-21

Version: A

Admit that signature			
Confirmation Signature		Customer Approved	
Responsible		Responsible	
QC		Engineer	
Approve		Approve	
Date		Date	

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- This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of 4G antenna.
- Antenna shape size: Meet the requirement of MID
- Antenna band: 634MHz~960MHz, 1710MHz~2700MHz,
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID
- Antenna performance meet the spec below:

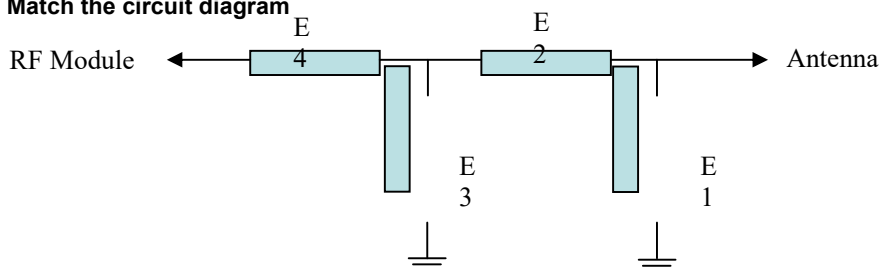
Description	634MHz~960MHz	1710MHZ-2700MHZ	Units
VSWR	≤ 5.0	≤ 5	
Average Antenna Gain	≥ -4.5	≥ -4.0	dB
Antenna Efficiency	≥ 30	≥ 40	%
Feed Impedance	50 ohms		
Operating Temperature	-40 to +85 deg C		
Polarization / Azimuth	Linear / Omni-directional		

● Mechanical Information

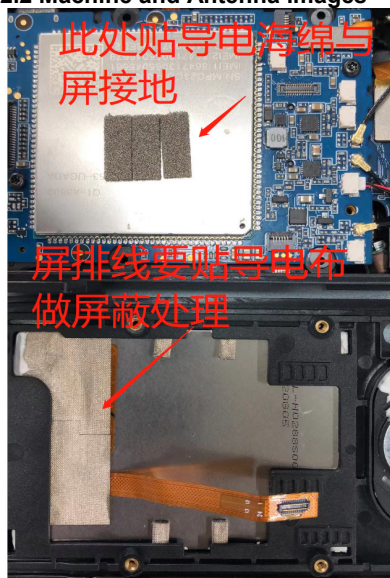
Mechanical Dimension	
Cable Length	040/Black
Description	4G antenna
Material	FPC
Coaxial Cable	50Ohm/O.D.0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

2: Match the circuit diagram, antenna images

2.1 Match the circuit diagram



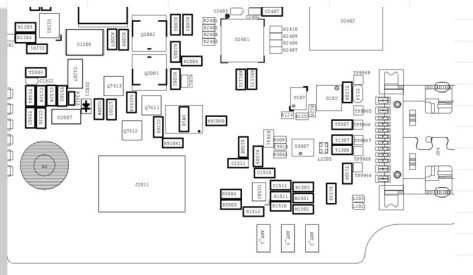
2.2 Machine and Antenna images



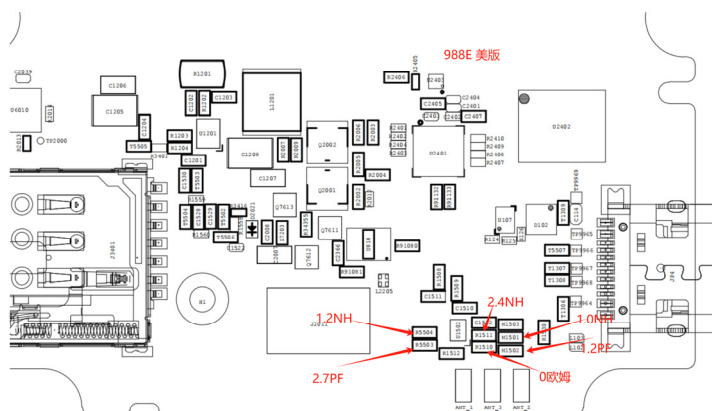
2.3 Match modification parameters

匹配修改参数图

SC200E-AU			
Pin 260 (GRFC14)	Pin 282 (GRFC15)	RF	Requirement
0	0	RF1	LTE, B7/B8/B38, WCDMA_B8, GSM900
0	0	RF2	LTE, B1/B2/B3/B4, WCDMA, B1/B3/B4, GSM/1800/1900
1	1	RF3	LTE, B5, WCDMA, B5, GSM950
1	1	RF4	LTE, B28
SC200E-AU支持频段			
LTE, B1/B2/B3/B4/B5/B7/B8/B28/B38 WCDMA, B1/B2/B4/B5/B8 GSM, 850/900/1800/1900			
SC200E-SA			
GPIO_51 (GRFC14)	GPIO_52 (GRFC15)	RF	Requirement
0	0	RF1	B2/B4/B5/B8/B9
0	0	RF2	B7
1	1	RF3	B5/B7/B28/B41
1	1	RF4	B1/B2/B3/B4/B41, B17
SC200E-SA支持频段			
B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71@FDD-LTE B41@TDD-LTE			
SC200E-EU			
Pin 260 (GRFC14)	Pin 282 (GRFC15)	RF	Requirement
0	0	RF1	LTE, B7/B8/B38/B40/B41, WCDMA_B8, GSM900
0	1	RF2	LTE, B1/B3, WCDMA, B1, GSM1800
1	0	RF3	LTE, B5/600, WCDMA, B5
1	1	RF4	LTE, B28
SC200E-EU支持频段			
LTE, B1/B3/B5/B7/B8/B28/B38/B40/B41 WCDMA, B1/B5/B8 GSM, 850/900/1800/1900			



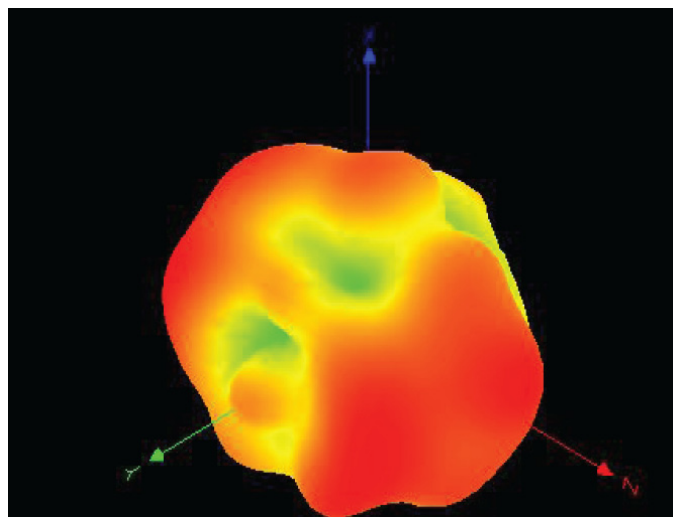
2G高电平万用表量0.5左右,需使用示波器测量为1.8V



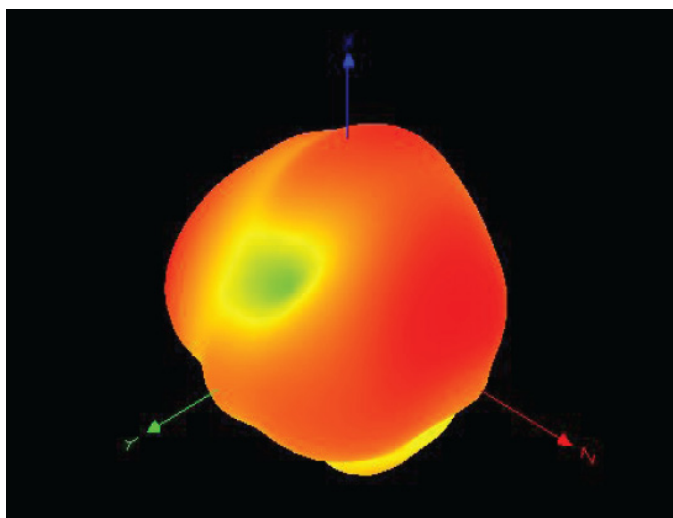
3:3D data

Operation Bands	Frequency(MHz)	Antenna Gain (dBi)
LTE B2	1850-1910	1.94
LTE B4	1710-1755	1.3
LTE B5	824-849	-0.74
LTE B7	2500-2570	1.15
LTE B12	699-716	-5.12
LTE B13	777-787	-3.26
LTE B14	788-798	-1.3
LTE B17	704-716	-5.82
LTE B25	1850-1915	1.94
LTE B26	814-849	-0.74
LTE B66	1710-1780	1.3
LTE B71	663-698	-5.12

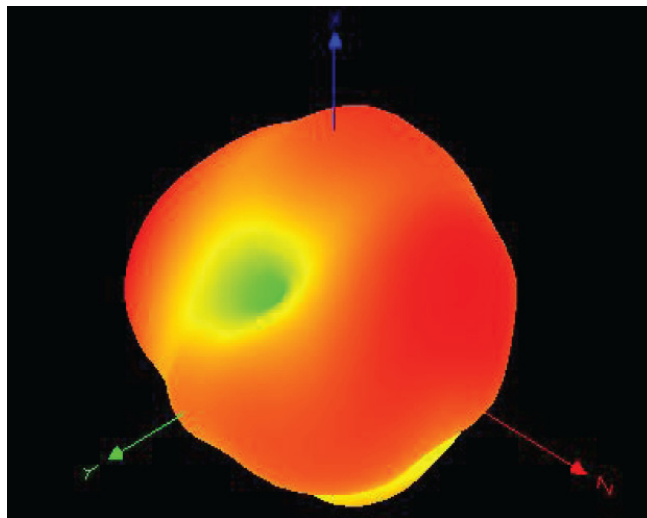
650MHz



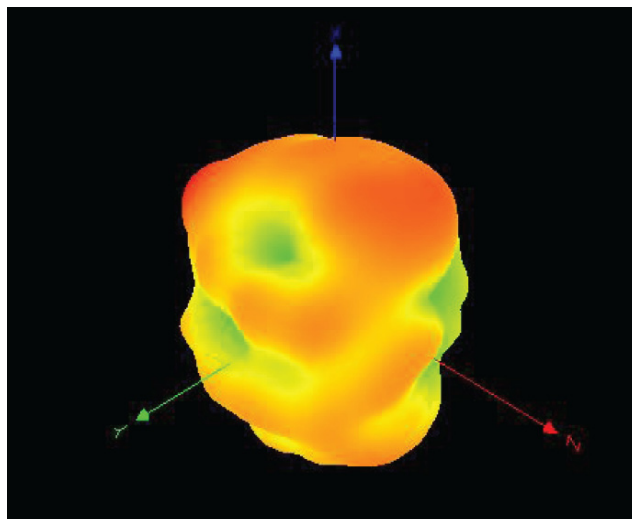
700MHz



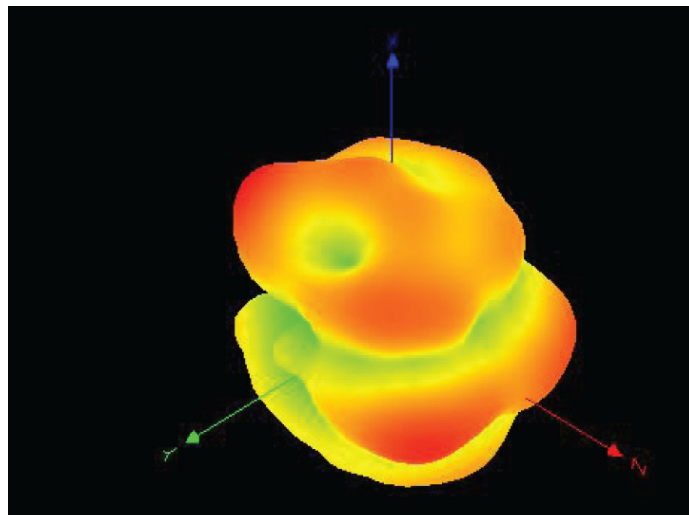
820MHz



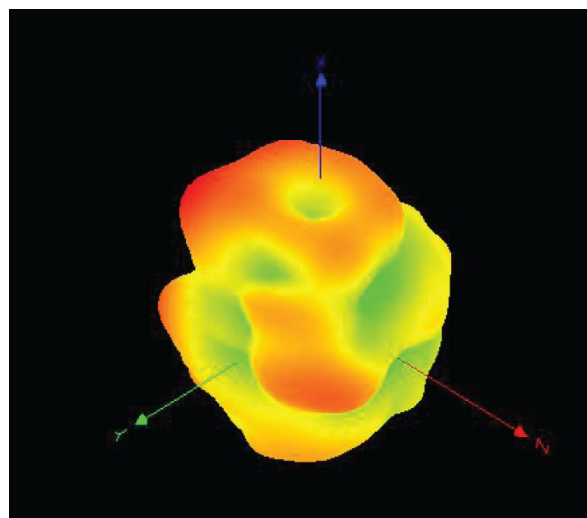
1710MHz



2170 MHz



2690MHz



4:Structural drawings

