

VLG TECHNOLOGY

ShenZhen VLG Wireless TECHNOLOGY CO.,LTD

Shenzhen VLG Wireless Technology Co., LTD Acknowledgment

Customer/project name	SiNan/GRR02	Frequency band	BT		
VLG P/N	V1265-021-A-2	Version	R:A		
RF	HeJunSun	Quality	YuHong	Confirm	
Structure	FeiHaiHe	PM	ZengCong		
Date	2022-8-25				
Customer project name and P/N	Customer project name: GRR02				
	Customer project P/N:				
Customer Confirmation					
VLG Communication Technology					
R&D Customer satisfaction survey of R&D projects (Customers please comment on the work of our R & D or PM management staff and urge us to better serve you)					
RF technician	☐ satisfaction	☐ be basically satisfied	☐ Dissatisfaction		
Structural technician	☐ satisfaction	☐ be basically satisfied	☐ Dissatisfaction		
Project Management (PM Manager)	☐ satisfaction	☐ be basically satisfied	☐ Dissatisfaction		
Description of suggested items:					
ANT Picture:					
					

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1、 **Specifications:** Reports are mainly provided GRR02, Test status of various electrical performance parameters of BT antenna. BT antennas are in the 2400~2500MHz band.



2、 Electrical Specification

2.1 specification standard

The BT antenna works in the 2400~2500MHz frequency band. The following table shows the passive performance test indicators of the antenna.

2.2 Antenna matching circuit:

No tuning match was added

2.3 ANT VSWR

2.3.1 Test setup

VSWR The test device is successively connected as: 8714ET: **network analyzer** → 50 Ω coaxial

Cable → → **Test Fixture**

Treatment of test fixture: a cable is used to lead out the SMA connector at the 50 ohm test point of the antenna, which is connected with the copper tube with a choke, and then connected to other devices in turn.

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2.3.2 ANT VSWR:



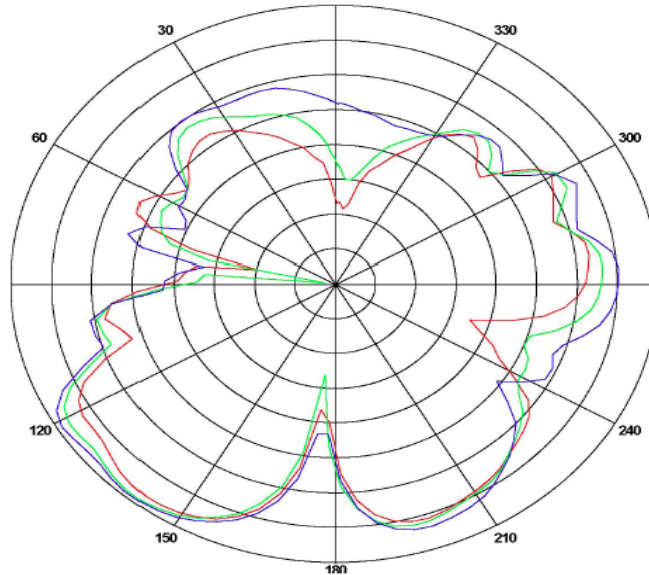
2.4 Passive test data:

Frequency (MHz)	效率 (%)	Gain (dBi)
2400	44%	0.54
2410	45%	0.30
2420	46%	0.02
2430	47%	0.03
2440	48%	0.78
2450	49%	0.78
2460	49%	0.83
2470	49%	0.97
2480	49%	1.00
2490	49%	0.91
2500	49%	0.88

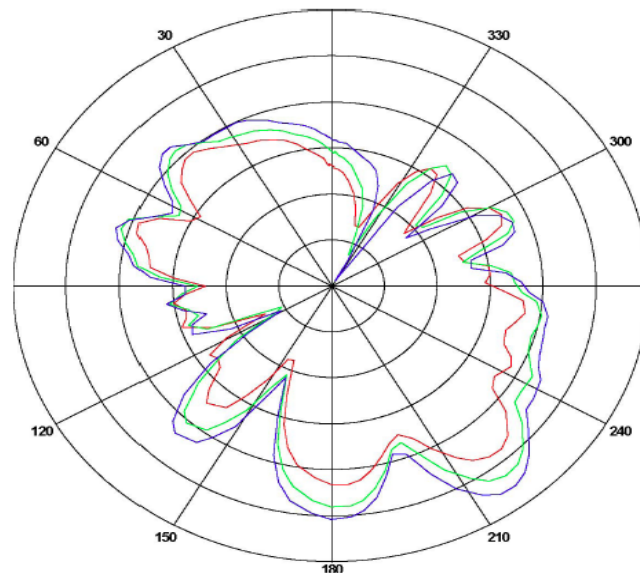
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Horizontal: 2400 MHz 2450 MHz 2500 MHz
Power (dBm)
Max: 0 Min: -40 Scale: 5/div



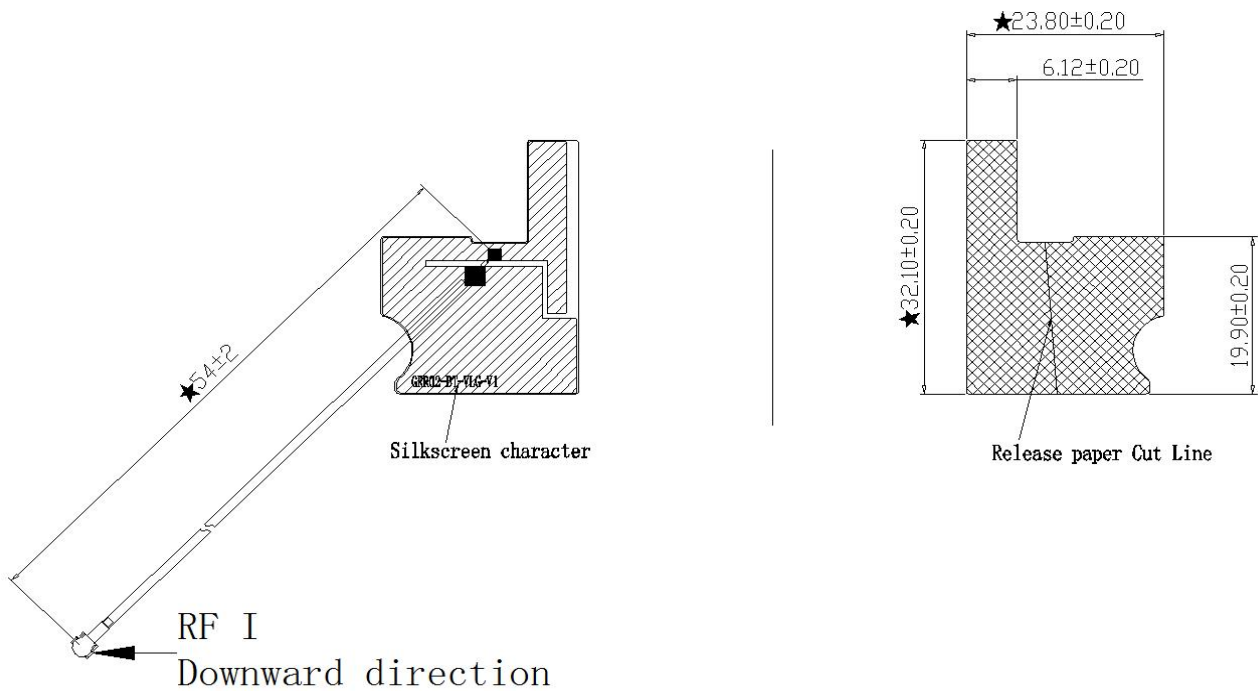
Vertical: 2400 MHz 2450 MHz 2500 MHz
Power (dBm)
Max: 0 Min: -30 Scale: 5/div



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3 Product 2D Drawing:



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first article inspection(FAI)

Customer name		SINA		Product Name		GRR02		Product Type		BTAN T				
Supplier Name		/		P/N		V1265-021-A-2		Inspector		YuHong				
Drawing version		A		Unit		mm		TestDate		06/15				
No.	Test items	Test Standard				Actual measured Size					Judge ment Resuit	Inst ru me nta tion	Re ma rk	
						1	2	3	4	5				
1	Appearance	Poor Appearance				OK	OK	OK	OK	OK	OK			
	Size	★	32.10	±	0.20	32.12	32.10	32.15	32.12	32.10	OK	PM		
		★	23.8	±	0.20	23.85	23.84	23.88	23.82	23.85	OK	PM		
		★	6.12	±	0.20	6.15	6.13	6.18	6.15	6.16	OK	PM		
		★	19.90	±	0.20	19.91	19.90	19.92	19.92	19.98	OK	PM		
Final judgment: OK ☒ NG ☐														

Test instrument abbreviation: PG-Plug (round hole) gauge、SG—set block、LG-ring gauge
DC-digital caliper PM-projector Machine

Version:A.0

list number:VLG/QRF8.2-28/A.0

Inspection: Jiang Tao

Audit:

Approved: Yu Hong

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