


# VLG TECHNOLOGY

4/F, B5 Building, Taohuayuan Technology & Innovation Ecological Park, Xixiang,  
Baoan, Shenzhen, China

## Acknowledgment

Customer/project name	SINAN/P300-MINI	Frequency band	824-960/1710-2690MHz		
VLG P/N	V1265-019-A-1	Version	R:B		
RF	HeJunSun	Quality	YuHong	Confirm	
Structure	ShaoBing	PM	ZengCong		
Date	2023-08-10				
Customer project name and P/N	Customer project name: P300-MINI				
	Customer project P/N:1010200036				
Customer Confirmation					
VLG Communication Technology					
<b>R&amp;D Customer satisfaction survey of R&amp;D projects (Customers please comment on the work of our R &amp; D or PM management staff and urge us to better serve you)</b>					
RF technician	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> Dissatisfaction		
Structural technician	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> Dissatisfaction		
Project Management (PM Manager)	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> Dissatisfaction		
Description of suggested items:					
ANT Picture:					
					

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**1.Specifications:** The report mainly provides the test status of various electrical performance parameters of P300-MINI LTE antenna and Bluetooth. The LTE antenna is 824~960/1710~2690MHz, and the Bluetooth antenna is 2400~2500MHz



## 2、Electrical Specification

### 2.1 specification standard

LTE antennas operate at 824~ 960mhz /1710~2690MHz, and Bluetooth antennas operate at 2400~2500MHz. The following table is the passive performance test index of the antenna.

### 2.2 Antenna matching circuit:

**No tuning match is added to the antenna**

### 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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### 2.3.4 BT ANT VSWR:



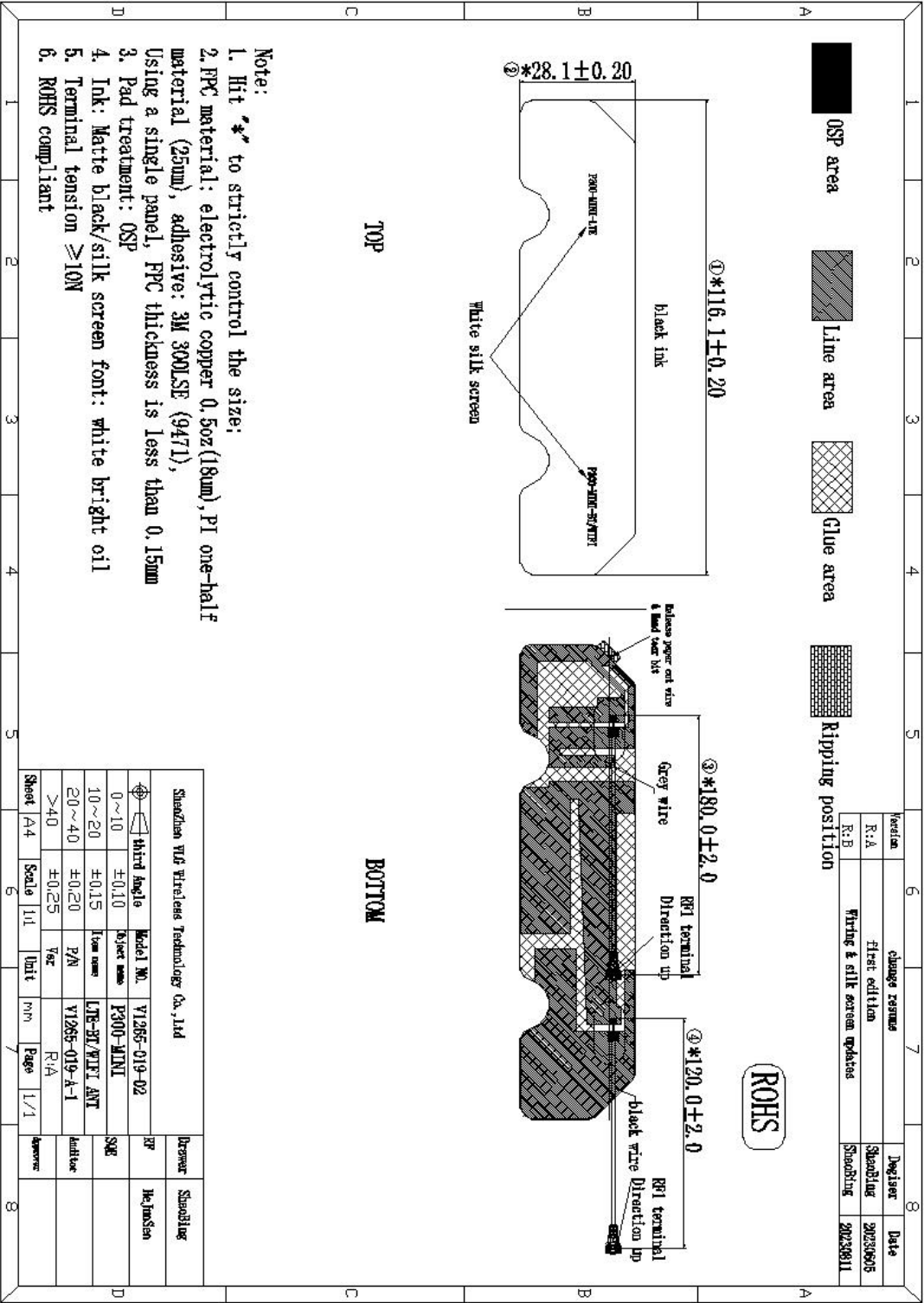
### 2.3.5 BT ANT Passive test data :

Frequency	Efficiency	Gain, dB
2400	26%	-5.9
2410	27%	-5.7
2420	28%	-5.6
2430	28%	-5.5
2440	28%	-5.5
2450	28%	-5.5
2460	29%	-5.4
2470	28%	-5.5
2480	27%	-5.6
2490	26%	-5.8
2500	24%	-6.2

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3 Product 2D Drawing:



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ShenZhen VLG Wireless Technology Co.,Ltd

Sample size test report (FAI)

customer name		SINAN		product name		P300-MINI		type		LTE/WIFI				
supplier		/		P/N		V1265-019-A-1		Tester		YuHong				
Drawing version		B		Unit		mm		Survey Date		08/15				
NO.	test item	test standard				measurement					result	instrument	remark	
						1	2	3	4	5				
1	aspect	Brief description of bad appearance				OK	OK	OK	OK	OK	OK	test		
	drawing size	★	116.10	±	0.20	116.13	116.12	116.18	116.13	116.10	OK	PM		
		★	28.10	±	0.20	28.15	28.16	28.13	28.14	28.17	OK	PM		
		★	120.00	±	2.00	120.11	120.33	120.22	120.35	120.49	OK	PM		
		★	180.00	±	2.00	180.12	180.33	180.26	180.33	180.25	OK	PM		
		blank below												
<p><b>final judgment :</b>                      OK <input checked="" type="checkbox"/>                      NG <input type="checkbox"/></p>														

Testing instrument for short: PG - plug (round hole) gauge, RG - R gauge, SG - block gauge, LG - ring gauge DC-digital caliper PM - quadratic coordinate projector

Version :A.0 Form Number :VLG/QRF8.2-28/A.0

Inspection: Jiang Tao Audit: Approved: Yu Hong

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## 4.reliability testing

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## Constant temperature and humidity test report

name of the supplie	VLG			production batch	N		
Name	P300-MINI-LTE-BT/WIFI ANT			Test quantity	3		
P/N	V1265-019-A-1			Test standard	GB/T 2423. 1-2001		
Test Date	2023. 07. 29			Goods material			
Test time: 2023. 07. 29--2023. 07. 30							
teststandar d	actualst andard	Actual num	judg e	Tests tandard	standard	quantity	jud ge
instrument specificati on	80L	80L	OK	test standard	GB/T 2423. 1-2001	GB/T 2423. 1-2001	OK
Cal High Fusing	60℃	60℃	OK	environment temperature	5° C-30° C	28℃	OK
HUMI SV	95%	95%	OK	Ambient humidity	25%-85%	60%	OK
Test time	24H	24H	OK	Open the air compressor below 53℃	Open	Open	OK
Return to normal temperature time	2H	2H	OK				
Test survey time	High temperature observation						
24H	No abnormal products (Not deformed, not warped)						
48H	No abnormal products (Not deformed, not warped)						
judgeresult	Pass <input checked="" type="checkbox"/>				NO Pass <input type="checkbox"/>		
tester	Jangtao		chec k	zhang wang	Approved	Yuhong	

备注: test 完后须检测电性能是否符合原有 test 要求。

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## Salt spray test report

Test No				Test time	2023. 07. 29--2023. 07. 30		
Name	P300-MINI-LTE-BT/WiFi ANT			tester	Yaofeilong		
P/N	V1265-019-A-1			Test standard	GB/2423. 17		
Test Protest	Require standard	actualvalue	judge	testproject	Require standard	actualvalue	judge
testinstrument specification	KD-60	KD-60	OK	Test time	24H	24H	OK
Test tayp	NSS pH	NSS pH	OK	Salt spray tank temperature	$35 \pm 2^{\circ} \text{C}$	$35^{\circ} \text{C}$	OK
PH value	6. 5-7. 2	6. 8	OK	The amount of salt spray settling (H. 80C)	1-2ml	1. 6	OK
spray method	continuous spray	continuous spray	OK	humidity	>85%	95%	OK
Brine composition	$5 \pm 1\%/\text{NaCL}$	5%/NaCL	OK	Compressed air node pressure	$1 \pm 0. 1\text{KG}/\text{CM}^2$	1KG/CM <sup>2</sup>	OK
saturation temperature	$34^{\circ} \text{C}$	$34^{\circ} \text{C}$	OK	Sample horizontal direction placement Angle	$70-75^{\circ}$	$75^{\circ}$	OK
Judges tandard: According to the national standard 5944-86 rating method judge, grade 9 or above is Pass							
Judge result	Pass■						

make: Yaofeilong

check: Yuhong

Approved by: Yin Liang

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