

Development Project

Number: Y202003131768

Date: 2020.03.30

Edition: A0

Letter of acceptance

Customer Name: MOONS'Commissioning Items: UFO Card headB&T material number: AG-041333-1963Specifications: 2.4G Built-in antenna (FPC 31.2×13) -grey 1.13 line-Terminal L=85mm

Factory Signature:

Writing	Review	Approval
Huang Feihui	Ouyang Yingshan	Guan Ning

Customer Acknowledgment Signature:

Inspection	Review	Approval

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Document formulation/revision/abolition of resumes

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文件编号	版次		修订	日期
	A0			20-03-28

单位：mm

技术要求

- 1: 天线焊接部位牢固, 线缆尺寸准确.
- 2: 天线性能测试 VSWR 对封样图形.
- 3: 线缆 1.13 线, 维持力 $\geq 1\text{Kg}$.
- 4: 丝印颜色为亮白色, 字体清晰不易脱落.
- 5: * 为 IQC 重点检验尺寸.
- 6: 包装以及品质标准分别参考博安通包装规范和博安通品质标准.
- 7: 材料符合 ROHS2.0 要求.

外观	SIP					设计	柯友杰
	外观	板端端子	GD/NG	C=0	目视		
	端子	1KG	GD/NG	C=0	互配		
	维持力	$\phi 1.13$	± 0.1	NA	拉力计/挂重		
VSWR	对封样图形	MAX	NA	NA	颜色为灰色	重量	数量
	线长	± 3	NA	NA	1:1	比例	1:1
	基准值	公差	AQL=0.25	测试工具	第 1 张	项目号	AG-041333-1963
检测内容					备注	0.00	Y202003131768
0°					备注	0.00	Y202003131768

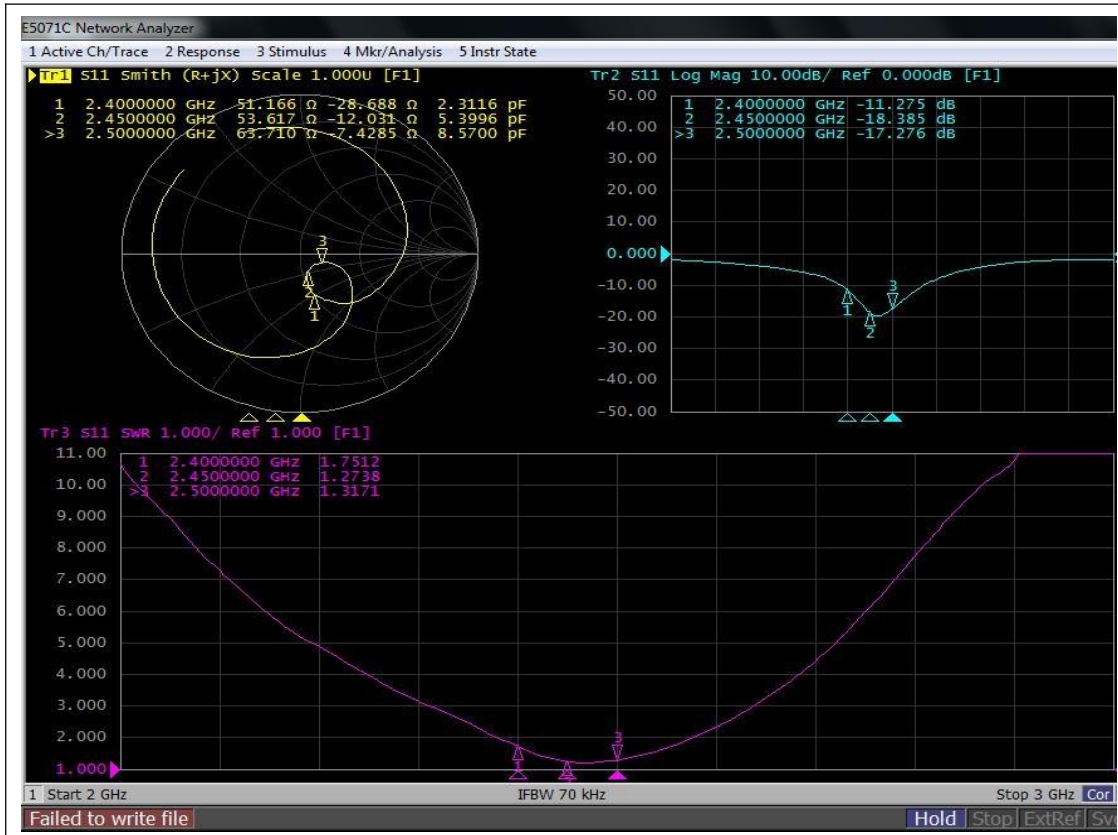
中山市博安通通信技术有限公司

4. Performance parameters

Electrical parameters	
Frequency range	2400-2500MHz
Input impedance	50Ω
Stop the wave	Compare the seal figure
Maximum gain	3.44dBi
Power capacity	<10w
Polarization mode	Line polarization
Radiation direction	Omnidirectional
Connector model	Terminal
Mechanical parameters	
Line length	85±3mm
Sustainment	1KG
coaxial cable	Grey 1.13 line
Salt spray test	24H
Environmental parameters	
Operating temperature	-30°C~65°C

5. Electrical performance test report

S11 Parameter



5.2 VSWBN data

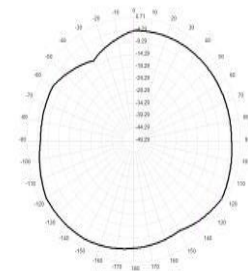
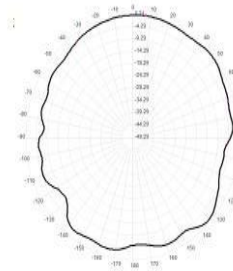
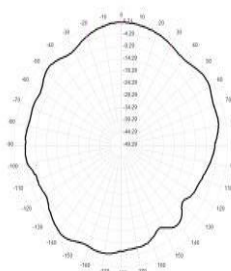
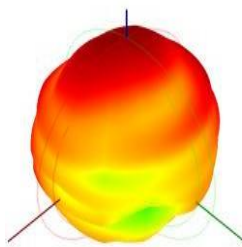
Freq/GHz	2.4	2.45	2.5
VSWR	1.75	1.27	1.31

5.3 Antenna anchoric test data

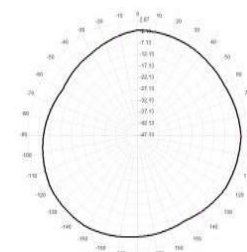
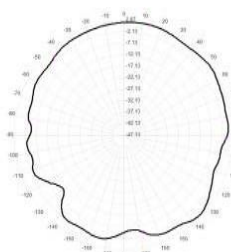
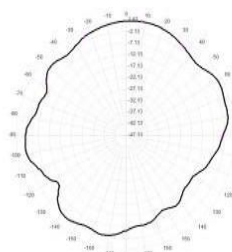
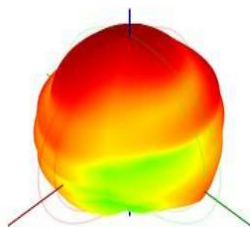
Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
gain/dBi	2.10	2.15	2.27	2.33	2.44	3.10	3.44	3.19	2.68	2.83	2.46
Efficiency/%	51.06	52.95	51.76	57.61	61.12	59.50	61.45	56.52	54.60	52.93	50.81

WIFI antenna pattern

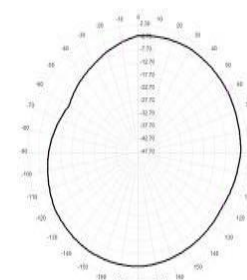
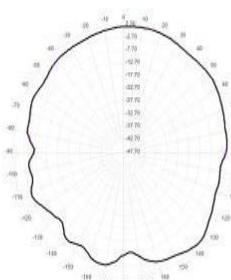
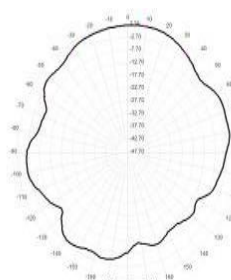
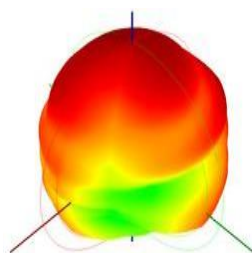
2400M 3D-E1-E2-H



2450M 3D-E1-E2-H



2500M 3D-E1-E2-H



6. Material composition and hazardous substance table

item times	specification	Material	RoHS Inspection Results (PPM)						ICP detection number	Detection time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	1.13 Line	FEP	ND	ND	ND	ND	ND	ND	SHAEC2001149401	20.01.21
		Tinned copper wire	ND	ND	ND	ND	ND	ND	A2190201290101001	19.08.13
2	FPC	Flexible circuit boards	ND	ND	ND	ND	ND	ND	CANEC1909313701	19.05.27
		Adhesive backing 3M	ND	ND	ND	ND	ND	ND	4226898	19.05.02
3	Terminal	PBT	ND	ND	ND	ND	ND	ND	CE/2019/C2588	19.12.23
		Phosphor Bronze	ND	8	ND	ND	ND	ND	CANEC1910449313	19.06.10

