



Development Case No.: SG201510120700

Date: 2018.06.29

Version: A3

Acknowledgment

Customer Name: Beihuan

Debug model: 27-inch all-in-one machine

Boantong material number: AG-011318-0870

Specifications: 2.4G external black 8.5CM short foldable antenna-SMA-J

Factory stamp:

write	Audit	approve
Huang Feihui	Liu Lihua	Zhou Quan

Customer acknowledgement signature:

examine	Audit	approve

Boantong contact information

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4. Performance parameters

Electrical parameters	
Frequency Range	2400~2500 MHz
input resistance	50Ω
VSWR	Compare engineering seal samples
Gain	50Ω
Continuity test	aisle
Polarization mode	Linear polarization
Radiation direction	Omnidirectional
Connector Model	SMA-J
Mechanical parameters	
Total length	109±4mm
Connector retention force	≥3Kgf
Insertion and extraction force	/
Coaxial Cable	RG178 line
Salt spray test	24H
Environmental parameters	
Operating temperature	-30℃~65℃

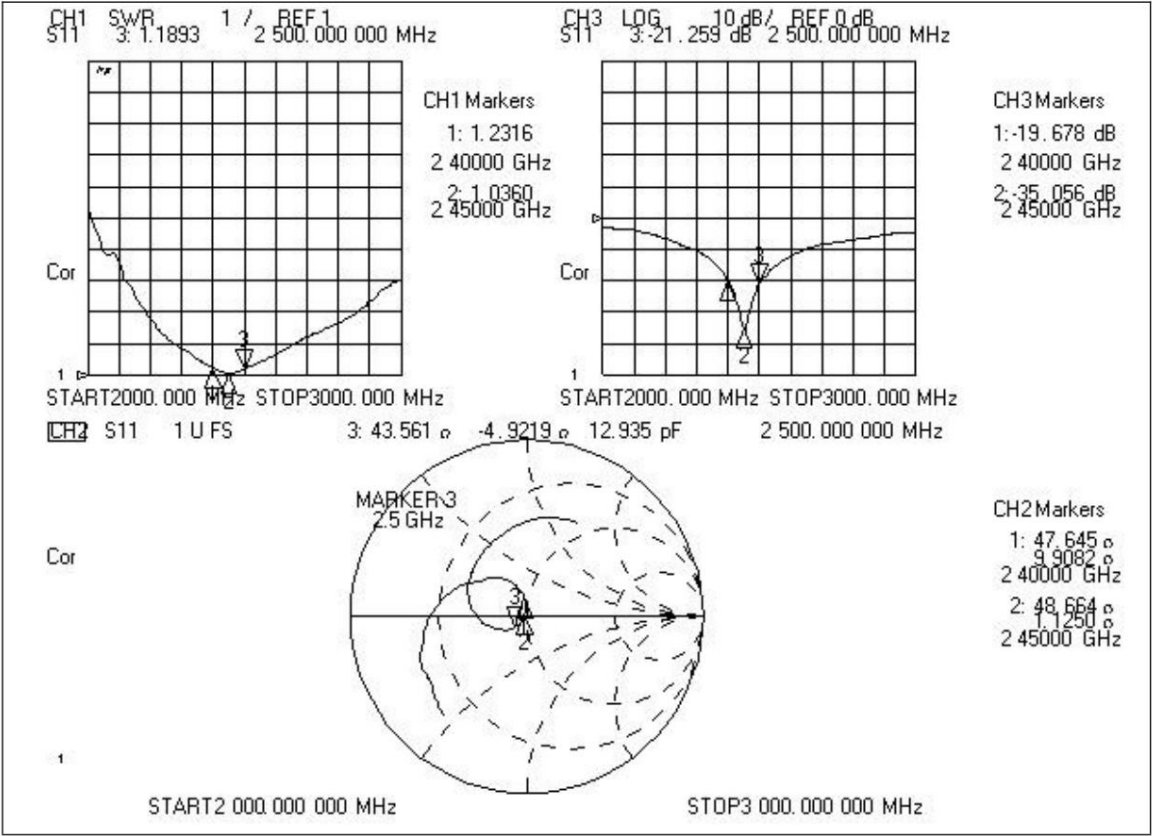
Measurements summary

Frequency	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402MHz	-4.58	74.83	1.25
2404MHz	-4.55	75.08	1.17
2440MHz	-4.31	77.07	1.19
2441MHz	-4.29	87.24	3.50
2472MHz	-4.47	55.73	1.12
2480MHz	-4.51	75.4	2.15

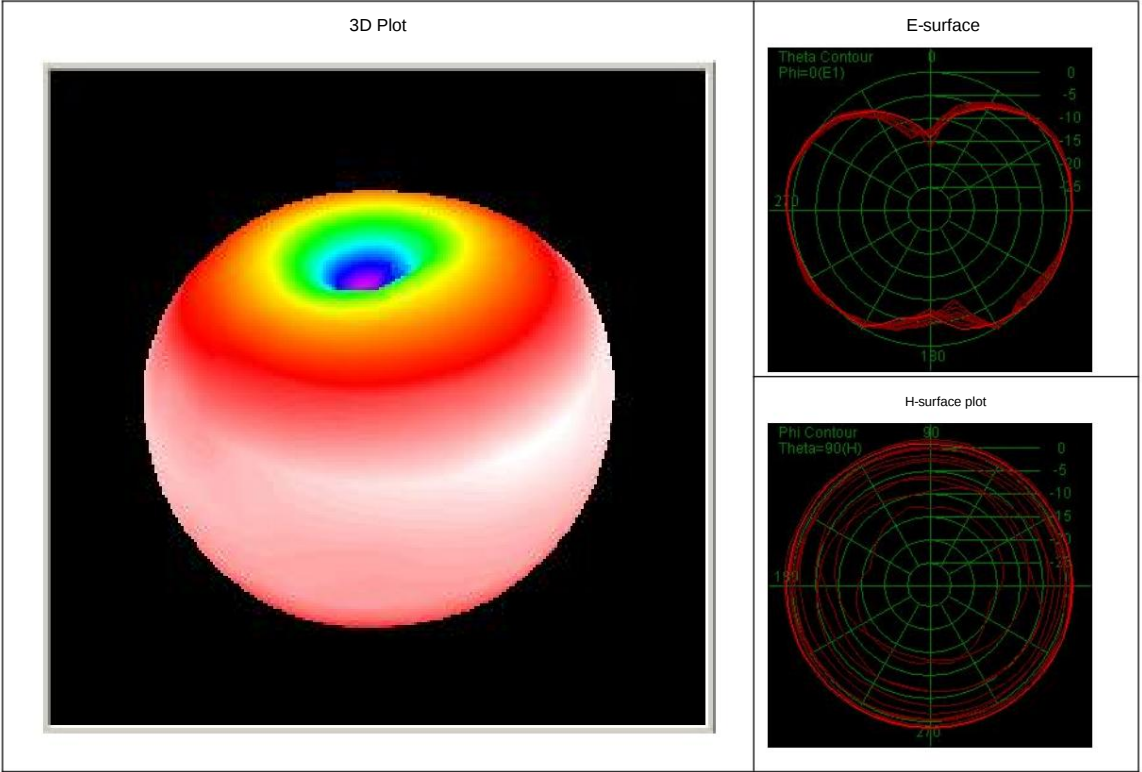


5. Electrical performance test report

S11 Parameter



Gain/Radiation Pattern





6. Material composition and harmful substances list

item	Specifications and materials	RoHS test results (PPM)							ICP Test Number Test Time
		Cd	Pb	Hg	Cr+6	PBB	PDE		
1	RG178 cable	FEP	ND	ND	ND	ND	ND	ND	NGBML2100232101 2021/11/26
		Tinned copper wire	ND	ND	ND	ND	ND	ND	A2210461380101001 2021/11/11
		Silver-plated copper wire	ND	ND	ND	ND	ND	ND	SHAEC2127051115 2021/11/16
2	Zinc alloy tube	Zinc alloy	ND	17	ND	ND	ND	ND	SZXEC2200806901 2022/4/6
3	Folding part	PC+PBT	ND	ND	ND	ND	ND	ND	SZXEC2101487701 2022/3/10
4	rod sleeve	TPEE	ND	ND	ND	ND	ND	ND	CANEC2203391203 3/11/2022
5	Connector	brass	10	27364	ND	ND	ND	ND	CANEC2200189311 2022/1/12
		PTFE	ND	10	ND	ND	ND	ND	SHAEC2118628401 2021/8/30
		Gold-plated	ND	24	ND	ND	ND	ND	SZXEC2103405301 2021/11/12
		Nickel plating	ND	28	ND	ND	ND	ND	SZXEC2103405307 2021/11/12



Product packaging specifications

PACKING CRITERION

Part Number: AG-011318-0345

Product specifications: 2.4G external black 8.5CM short foldable antenna-SMA-J

1. Label requirements (refer to the corresponding finished product label production requirements according to the customer name, if there is no requirement, it will be based on the general label requirements)

The inner label is about 10cm long and 6cm wide . The outer label is about 10cm long and 6cm wide.

Demand side	*****		
Supplier	Zhongshan Boantong Communication Technology Co., Ltd.		
Material coding	*****		
Production order number	*****		
Product Name	Specification*****	Inspector**	
Quantity/Unit****		date***. **. *	
Traceability code*****	Serial number**		

Demand side	*****		
supplier	Zhongshan Boantong Communication Technology Co., Ltd.		
Material coding	*****		
Production order number	*****		
Product Name	Specification*****	Inspector	**
Quantity/Unit****		date***. **. *	
Traceability code*****	Serial number		**

2. Packing requirements

Assignment Description:

1. Inner packaging:

Product 50 PCS per bag;

2. Outer packaging:

1500 PCS per box

Precautions:

1. Whether to add partitions and pearl cotton;

2. Attachment of labels, such as ROHS, etc.;



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Form Number: B&T-QR-EN-002 Version: B3

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8. Reliability test requirements

序号	可靠性试验名称	试验条件	判定标准
1	恒温恒湿试验	高温:70℃, 湿度:80%RH 24H; 低温-40℃ 24H;共持续 48H;	试验前后外观要求: 金属表面镀层应无剥落, 裂痕起皱, 分离等。非金属部分不应变色, 发生开裂, 变形, 脱胶等不良; 电气性能测试符合标准要求;
2	高低温冷热冲击试验	70℃持续 2H、-40℃持续 2H, 6 次循环, 共 24 小时;	试验前后外观要求: 金属表面镀层应无剥落, 裂痕起皱, 分离等。非金属部分不应变色, 发生开裂, 变形, 脱胶等不良; 电气性能测试符合标准要求;
3	盐雾试验	配制浓度 (5±1) %NaCl 溶液, 确保盐溶液的 pH 值为中性 (6.5~7.2); 压力桶温度 47±1℃, 喷雾压力保持在 1.00±0.1kgf/cm ² , 喷雾量 1.0~2.0ml/80cm ² /h; 试验时间 24H;	产品表面外露区域不可有氧化、锈蚀现象; 其它区域盐雾试验后的氧化/生锈面积 < 1.0%
4	连接器保持力试验	常温常湿; 维持力挂重时间 5S, 挂重重量 ≥ 3kgf;	连接器与线缆无脱落、松动等; 测试后无开短路现象;
5	折部挂重试验:	常温常湿; 折部处挂重 4kgf;	折部与杆套无松脱, 销钉无断裂等异常;
6	折部弯折试验	常温常湿; 弯折 20 次, 每 2 秒 1 次; 一个往返为一次;	天线弯折后仍然节奏感明显; 在与水平面形成 45° 时无自然下垂;
7	SMA 扭力	用扭力批测试;	0.2-1.5KGf. CM