



东莞市千木电子科技有限公司

Qianmu Electronics Technology Co. Ltd

样品规格书

客 户:

品 名:

2.4G天线

料 号:

QM-A32

客户料号:

送样日期:

2024-01-20



客户确认			供应商确认	
工程部	品质部	生产部	核准	送样人
马明德	梁怀生	蔡良培	袁静 2024.02.23	李君林

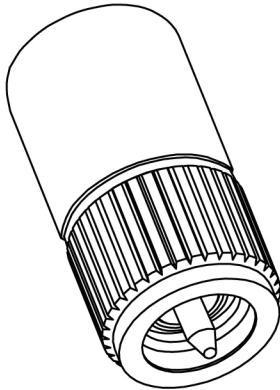
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RoHS Compatible		CUSTOMER								REV.		DESCRIPTION		DATE																			
		PART NO								△		首次发行		2017.04.12																			
21.5±1 10 12 9.5 10 																																	
东莞市千木电子科技有限公司 PART NAME: 2.4G Antenna PART NO.: DATE: 2024-02-23 APPROVED BY CHECKED BY DESIDNED BY 2024.02.23 2024.02.23 UNITS: mm SCALE: 1/1 REVISION: A Tolerance X.X ±0.50 X.XX±0.15 X° ±3° <table><tr><td>No.</td><td>Part Number</td><td>Description</td><td>Material</td><td>Finished</td><td>O'ty</td></tr><tr><td>2</td><td>HX-SMA-06</td><td>SMA 内针</td><td>铜</td><td>黑色</td><td>1</td></tr><tr><td>1</td><td>HX-AN68-08</td><td>本体</td><td>PC+ABS</td><td>黑色</td><td>1</td></tr></table>																No.	Part Number	Description	Material	Finished	O'ty	2	HX-SMA-06	SMA 内针	铜	黑色	1	1	HX-AN68-08	本体	PC+ABS	黑色	1
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4. Index:

1. Reliability Testing
2. Specification
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4. Antenna Radiation Pattern

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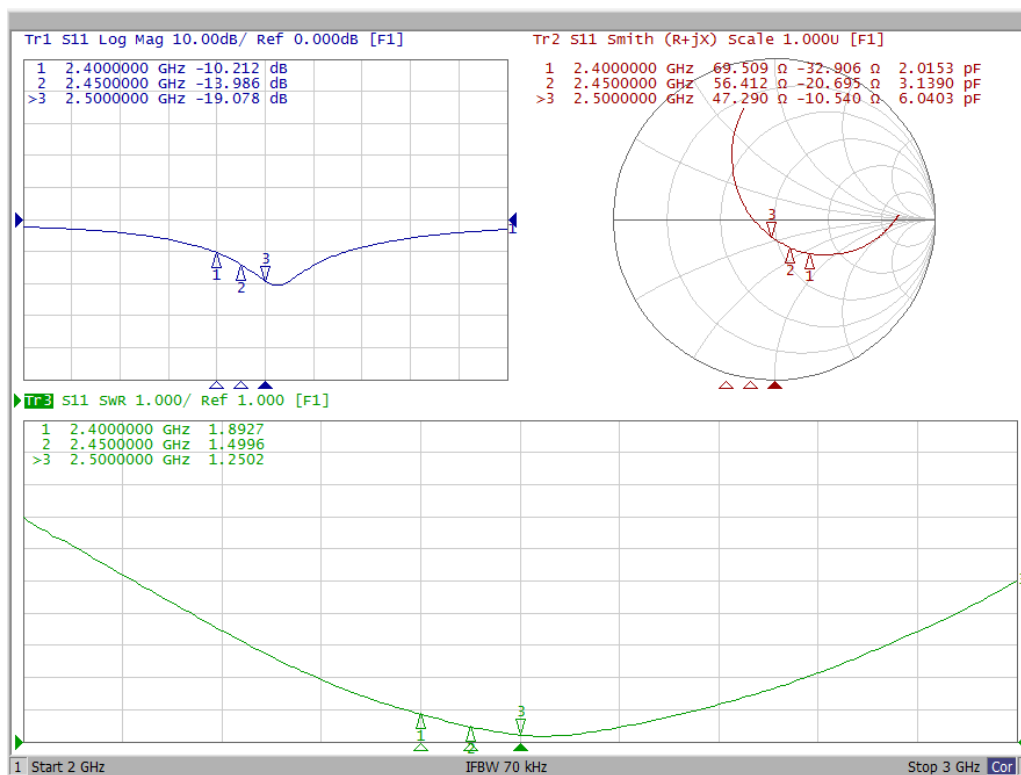
4.1 Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%
5. Connector Rotation Force	1200 – 1600 g.cm	1. no visible damage 2. Freq Tol.: < ±5%
6. Connector Pull Force	>= 5.0 Kg	1. no visible damage 2. Freq Tol.: < ±5%

4.2 Specification

A. Electrical Characteristics	
S.W.R	< 2.0 @ 2400-2500MHz
Antenna Gain	2dBi
Impedance	50 Ohm
B. Material	
Material	CU
Connector	SMA
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

4.3 S Parameter Test Data



4.4 Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

