

东莞市乔木电子科技有限公司

规格书

SPECIFICATION FOR APPROVAL

客 户 名 称:

客户项目名称:

客 户 料 号:

物 料 名 称:

日期: 2024-08-16

	MANUFACTURE SIGNATURE	CUSTOMER SIGNATURE
CHECKED BAY:	周文彬	
AUDITOR BAY:		
APPROVED BAY	谭文锋	
DATE:	2024-08-16	

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Product Number: DF5DBI82564/5-40

Product Name: Antenna

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Product Number: DF5DBI82564/5-40

Product Name: Antenna

1. Revision History

Revision	Date	Change Notification	Description
1.0	2024-08-16	初版	

Product Number: DF5DBI82564/5-40

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2. Specification

Sample Photo	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Antenna Gain	4.87dBi@ 2450 MHz
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	
Material of Plastic	Body: ABS Hinge: ABS Base: PC+PBT
Cable Type	1.13黑色线 85MM
Connector Type	
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

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3. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	N/A
C3	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
C4	Voltage Breakdown	Test voltage should be applied between insulated portions, or between ground as specified.	Max Voltage ≥ 500 V or directive material specification ≥ 500 V	N/A
C5	Insulation Resistance	Set Voltage: 500 ± 50 V; between the insulated portions, or between ground as specified.	Resistance ≥ 500 M ohm or directive material specification ≥ 500 M ohm	N/A
C6	Contact Resistance	Air Temp: 26°C ; measured with test equipment	Directive material specification	N/A
M1	Vibration	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction 1.5mm ; 20~80~20Hz	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
M2	Random Drop	GB / T2423.8-1995 Single : Height: 1.0 Meter; 3 directions; 1 time for each direction 1m	1. No parts separated 、 fracture 2. Frequency Tol. $\leq 5\%$	PASS
		Packing : Height: 0.76 Meter; 1 corner, 3 edges, 6 surface		PASS
		Antenna+Machine:Height: 0.76 Meter; 1 corner, 3 edges, 6 surface.		N/A
M3	Solderability	GB / T2423.28-2005	Tin evenly on full	N/A

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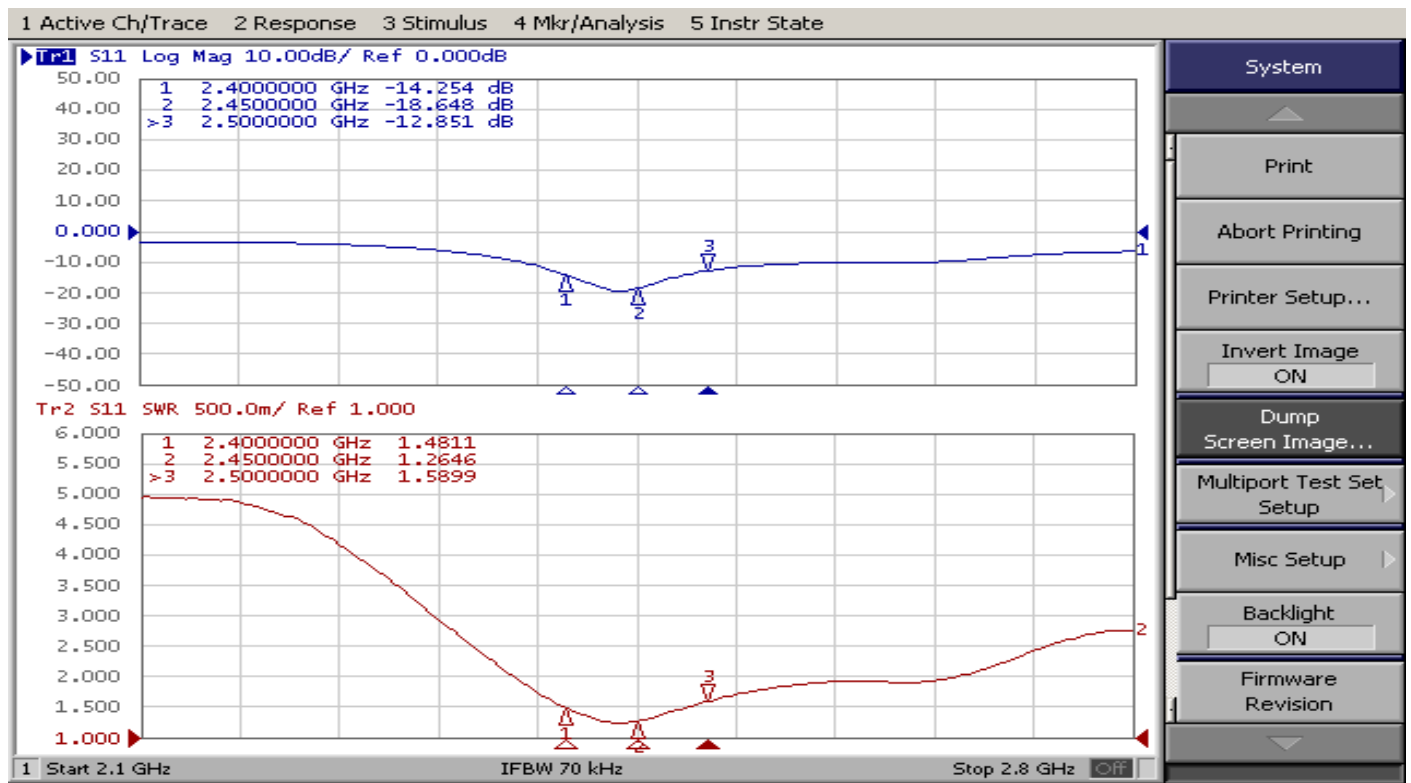
Product Name: Antenna

		Temp: $260 \pm 5^{\circ}$ C; Duration: 5 seconds		
M4	Pull Test	Holding with individual specification; force applied to axis of terminal .	Directive DUT specification Frequency Tol. $\leq 5\%$	PASS
M5	Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	Directive DUT specification Frequency Tol. $\leq 5\%$	N/A
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E1	Waterproof	With Reference to IEC 60529 // IP Code Definition IEC60529 IP	Directive DUT specification	N/A
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C ; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H	No Visual Damage Frequency Tol. $\leq 5\%$	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: $\geq 90\%$; Time: 24H	After 2 Hours Recovery No Visual Damage Frequency Tol. $\leq 5\%$	PASS
E4	Thermal Shock	GB / T 2423.22 - 2008 40°C (30 minutes) to $+80^{\circ}\text{C}$ (30 minutes); Cycles: 24	After 2 Hours Recovery No Visual Damage Frequency Tol. $\leq 5\%$	PASS
E5	Aging test	GB / T 2423.2 - 2008 Temp: 80°C ; Time: 24 hours	After 2 Hours Recovery No Visual Damage Frequency Tol. $\leq 5\%$	PASS
E6	High Temp.	Temp. $270 \pm 10^{\circ}$ C; Times: 120 seconds	No Visual Damage	N/A
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU	PASS
R2	PFOS	With Reference to USA EPA 3550C:1996 by LC/MS	Directive RoHS 2006/122/EC	PASS

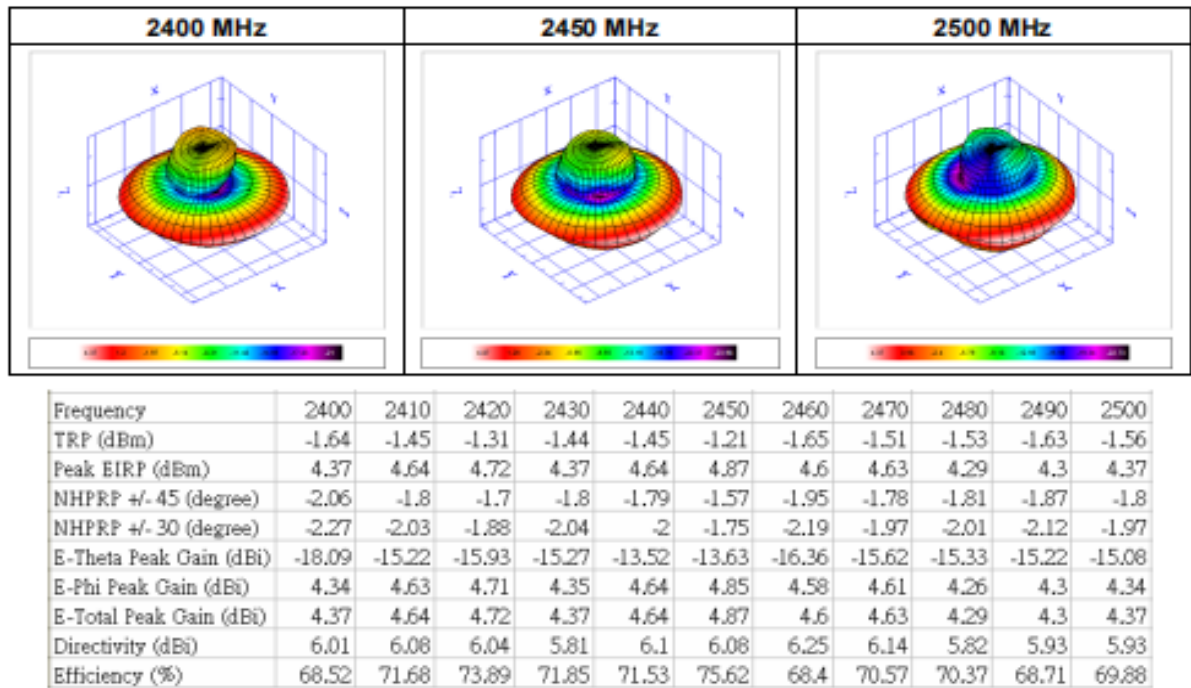
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4. Antenna - S Parameter Test Data



5. Antenna - Radiation Pattern Test Data



6. Mechanical and Packing Drawing

