



Tengxiang Technology.Inc

Product Number: AN2400-85C02RS-B

Product Name: Antenna

Specification For Approval

Date: 2026.9.17

Version: 1.0

Customer: _____

Customer P/N: MDZ000TX-0WIFI-0001

T X P/N: AN2400-85C02RS-B

Description : 2.4G Black Antenna, RP SMA Male

Tengxiang Checked By:		Customer Approved By:	
DRAWN	Zheng Xueling	TESTED BY	
CHECKED BY	Hu Chao	CHECKED BY	
Q.C.DEPT.	Chen Zuxi	Q.C.DEPT.	
APPROVED BY	Yuan Jiangfu	APPROVEDBY	



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Tengxiang Technology.Inc

Product Number: AN2400-85C02RS-B

Product Name: Antenna

Index:

1. Specification
2. Characteristics and Reliability Test
3. Antenna - S Parameter Test Data
4. Test environment and equipment
5. Antenna - Radiation Pattern Test Data
6. Mechanical and Packing Drawing

Revision History

Revision	Date	Change Notification	Description
1.0	2026.9.17	First edition	

Product Number: AN2400-85C02RS-B

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz
S.W.R.	<= 2.0 (Port VNA Measurement)
Antenna Gain	4.75dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic	ABS/PC+PBT/POM
Cable Type	RG178
Connector Type	RP SMA PLUG
C. Environmental	
Storage Temperature	- 30 °C ~ +65 °C
Operation Temperature	- 30 °C ~ +65 °C

Product Number: AN2400-85C02RS-B

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2. Characteristics and Reliability Test

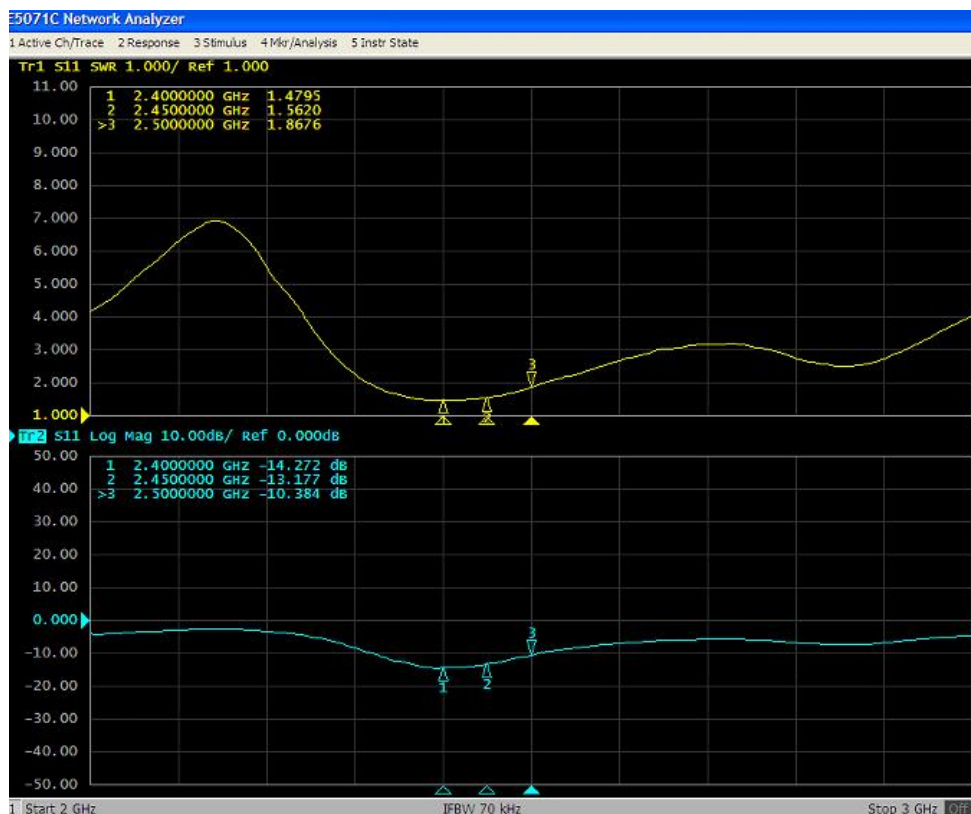
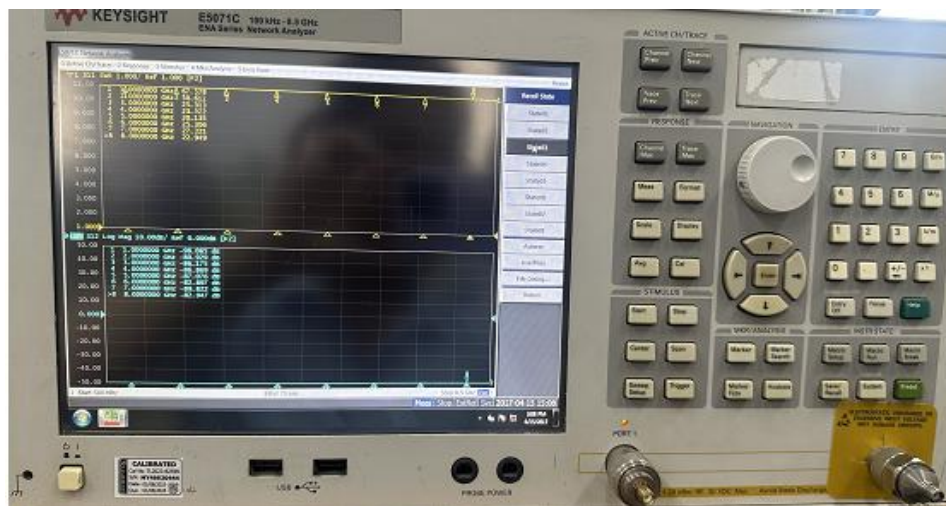
Test Items		Test Condition and Procedure	Requirements	Result
1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
3	Pull Test	Holding with individual specification; force applied to axis of terminal .	1. Directive DUT specification 2. Frequency Tol.The thread body 3kgf/min can not be pulled off	PASS
4	Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the connector of terminal	1. Directive DUT specification 2. Torque.300gf.cm -2000gf.cm	PASS
5	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
6	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$;Time: 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
7	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: $\geq 90\%$; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
8	Aging test	GB / T 2423.2 - 2008 Temp:65°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
9	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU	PASS

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3. Antenna - S Parameter Test Data

Test instrument: VSWR is tested using the Agilent E5071C connected to the fixture, with the status set to free space.



Product Number: AN2400-85C02RS-B

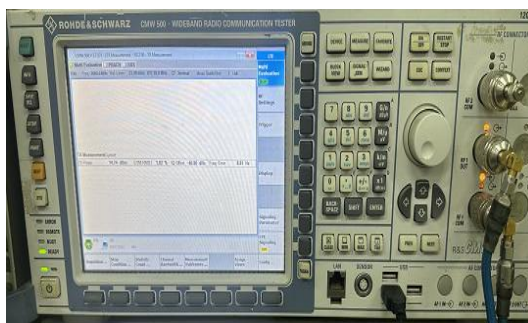
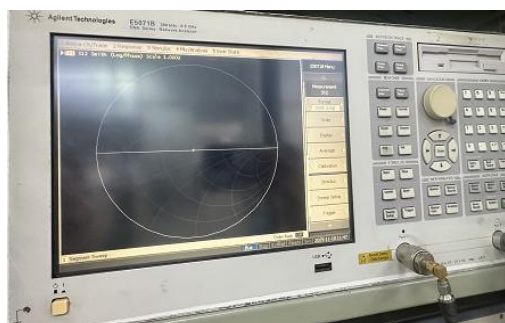
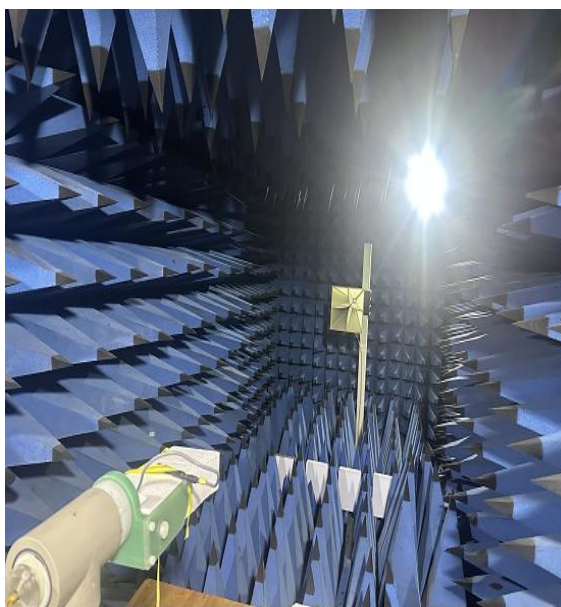
Product Name: Antenna

4. Test environment and equipment

Dark Room Specifications: 6m*6m*6m/7m*3m*3m

LTE-TDD/FDD-SCDMA Test equipment: ROHDE&SCHWARZ CMW500

Passive efficiency testing equipment:Agilent Technologies E5071B



Product Number: AN2400-85C02RS-B

Product Name: Antenna

5. Antenna - Radiation Pattern Test Data

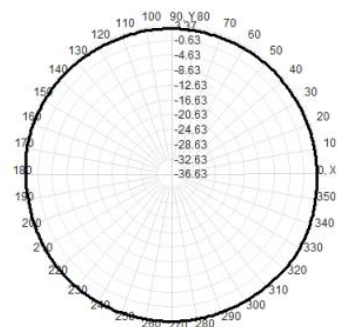
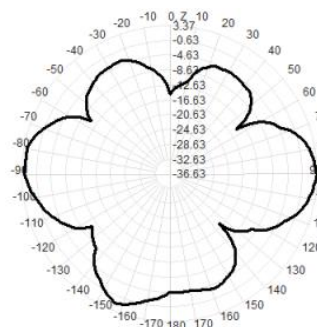
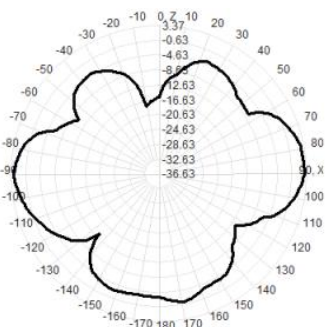
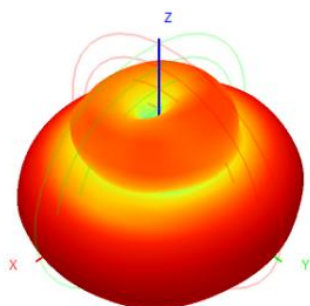
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.35	4.55	4.62	4.55	4.62	4.37	4.75	4.56	4.70	4.53	4.61
Efficiency (%)	75.63	75.10	76.22	75.88	77.62	78.22	73.66	75.42	73.66	72.12	74.12

XZ

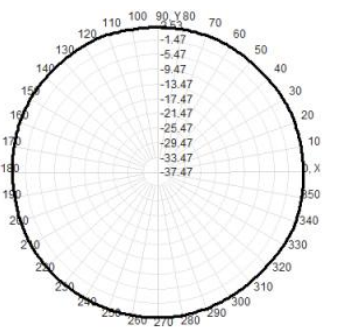
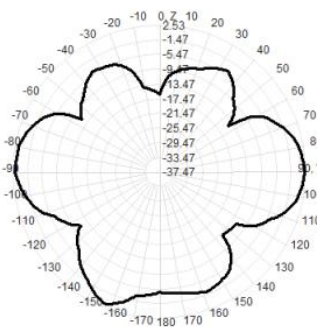
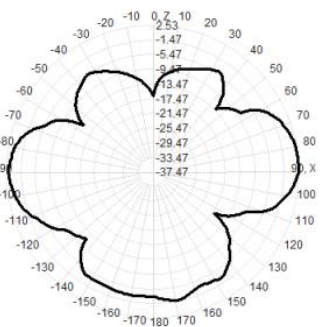
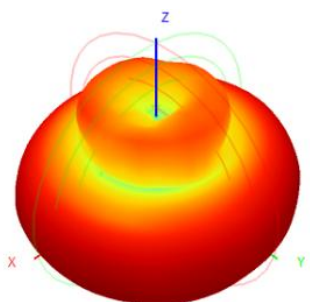
YZ

XY

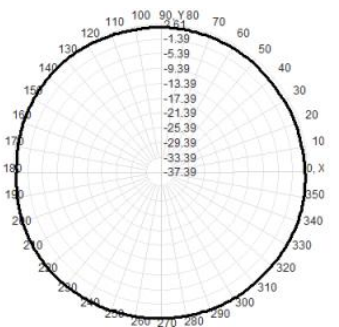
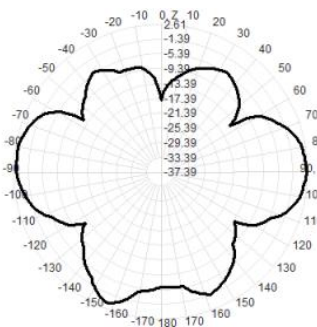
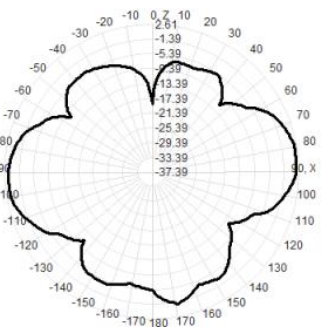
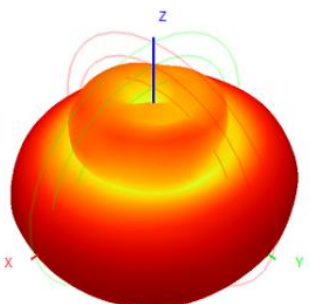
2400MHz



2450MHz

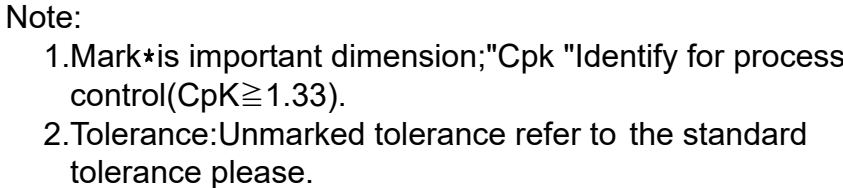


2500MHz



6. Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



 Tengxiang Electronics Co., Ltd.					
TITLE: Antenna					
PART NO.: AN2400-85C02RS-B				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	YJF	dwf	UNITS: mm	X.X ±0.5
2026.09.21	2026.09.21	2026.09.21	2026.09.21	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1

產品包裝規範

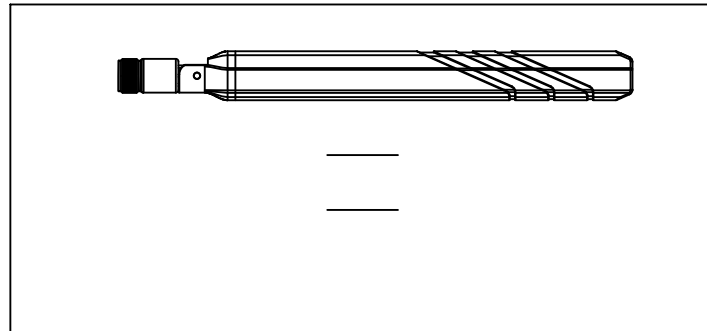
PACKING CRITERION

Date:2026.09.21

Page: 1 of 1

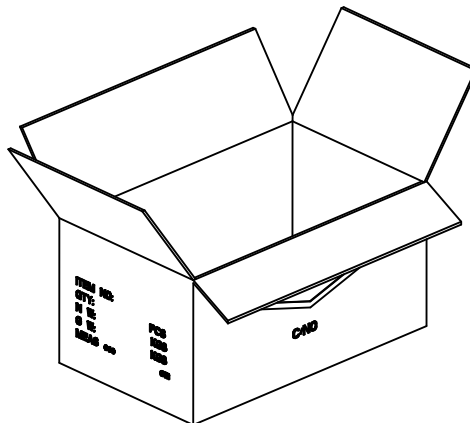
Part Number : AN2400-85C02RS-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



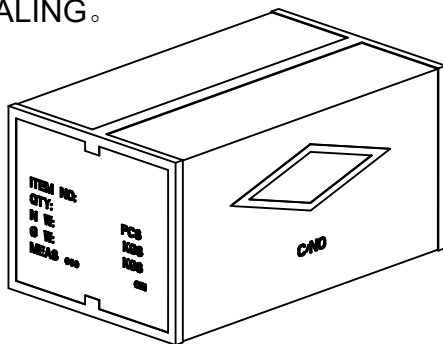
20pcs/ PE Bag

2.PACKING。

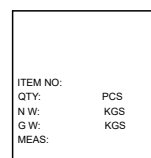


800pcs/Carton

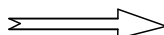
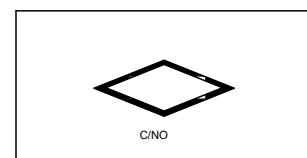
3. SEALING。



SIDE



FRONT



APPROVED BY: WJ

CHECKED BY: HC

DESIGNED BY: DWF