

东莞市群创通信技术有限公司

Dongguan QunChuang Communication Technology Co.,Ltd.

承 认 书

Specification For Approval

Customer:

客户名称

Customer P/N:

客户料号

QC P/N:

群创料号

AN2400-PCB213BX

Description :

规格描述

BT PCB Antenna 0.81mm Black Cable L=77mm+IPEX (4)

QC Checked By:	Customer Approved By:
	

Address: Room 303, Building 1, No. 1, Xinfu Road, Shangjiaopu, Chang'an Town,
Dongguan City, Guangdong Province

Version: 1.0

东莞市群创通信技术有限公司

Dongguan QunChuang Communication Technology Co.,Ltd.

Product Number: AN2400-PCB213BX

Product Name: Antenna

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- 2. Antenna - S Parameter Test Data
- 3. Antenna - Radiation Pattern Test Data
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Revision History

Revision	Date	Change Notification	Description
1.0	2025.10.28	1.0	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500 MHz
S.W.R.	Reference waveform
Antenna Gain	-1.19dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type	OD0.81mm ,Black
Connector Type	I-PEX (4)
C. Environmental	
Storage Temperature	- 40°C ~ +80 °C
Operation Temperature	- 40°C ~ +80 °C

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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	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
3	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
4	Solderability	GB / T2423.28-2005 Temp: $260 \pm 5^{\circ}$ C; Duration: 5 seconds	Tin evenly on full	PASS
5	Pull Test	Holding with individual specification; force applied to axis of terminal .	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$	PASS
6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
7	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321	Directive RoHS 2015/863/EU	PASS

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3. Antenna - S Parameter Test Data



4. 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)	-1.55	-1.35	-1.27	-1.45	-1.30	-1.41	-1.56	-1.19	-1.58	-1.21	-1.40
Efficiency (%)	13.06	14.38	15.61	15.36	17.09	16.98	17.04	17.09	16.94	16.95	16.88

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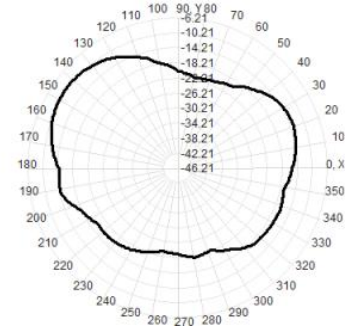
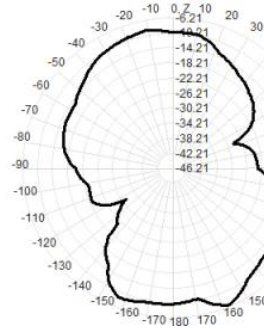
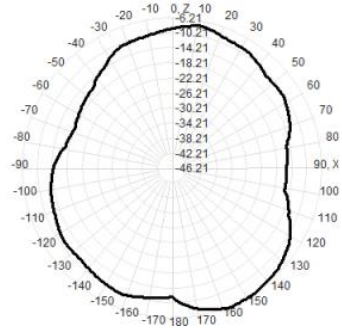
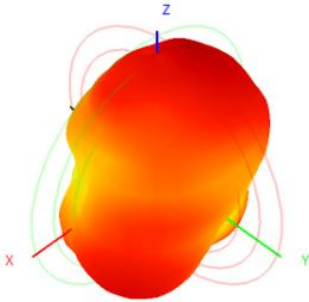
Product Name: Antenna

XZ

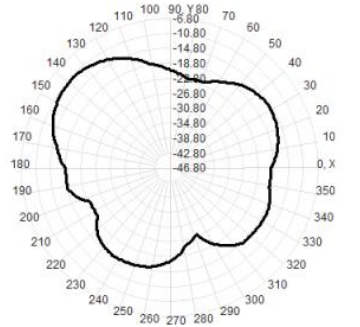
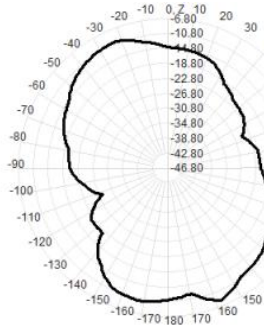
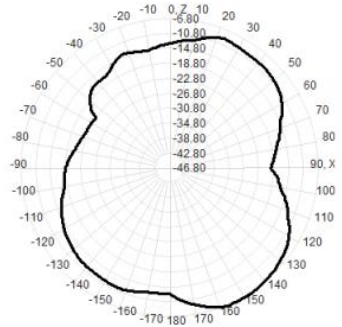
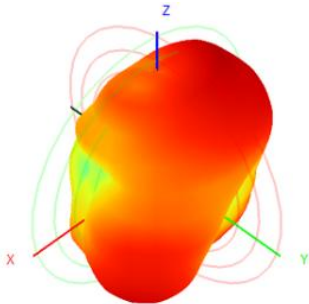
YZ

XY

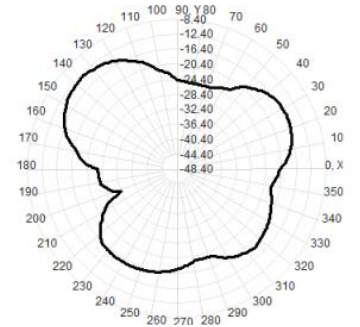
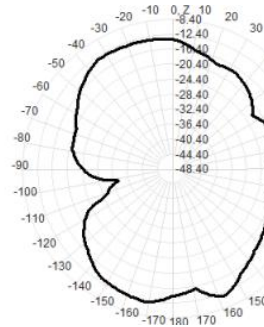
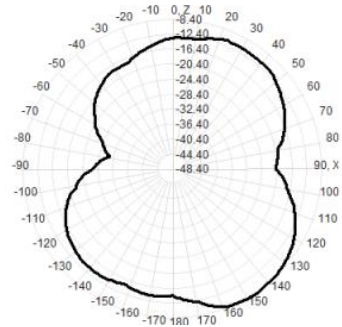
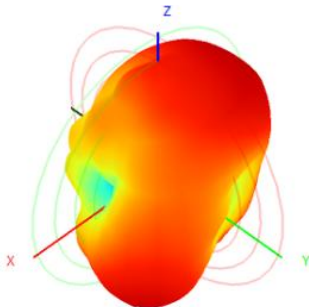
2400MHz



2450MHz



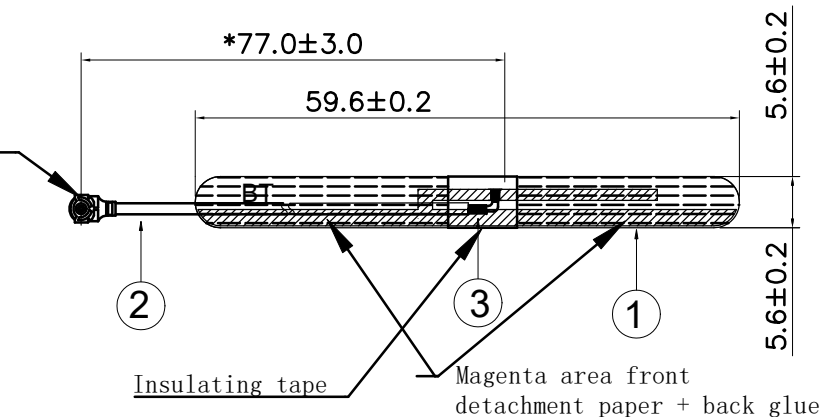
2500MHz



5. Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			

The direction of the terminal
is shown in the figure.



- Note:
1. Mark * is important dimension; "Cpk "Identify for process control ($CpK \geq 1.33$).
 2. Tolerance: Unmarked tolerance refer to the standard tolerance please.
 3. Pay attention to the direction of the connector.

3		Insulating tape			1
2	CABLE-081-77BX	Coaxial Cable+IPEX(4代)		Ø0.81mm,Black	1
1	AN2400-PCB596056-R	PCB	FR4	Black T=0.2mm	1
No.	Part Number	Name	Material	Finish	Q'ty

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TITLE: Antenna						
PART NO.: AN2400-PCB213BX				CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance	
					UNITS: mm	X.X ±0.5
					SCALE: 1/1	X.XX ±0.2
					REVISION: A	X° ±1