

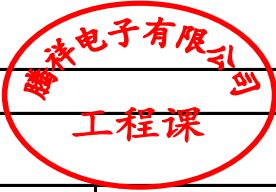
供应商:

东莞市腾祥电子有限公司
DONGGUAN TENGXIANG ELECTRONICS CO., LTD
地 址: 东莞市长安镇沙头沙涌路53号

承 認 書

SPECIFICATION FOR APPROVAL

X X X料號 SOREDE P/N	AN2450-74BC05RS-B
品 名 / 規 格 DESCRIPTION	2.4/5.8G Antenna 黑色公头母针
X X X送樣編號 SOREDE DWG#	20210201001
送样日期 SAMPLE DATE	2021.02.01



MANUFACTURER/制造商			
APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 核 准	TESTED BY 檢 測
韦佳	李群	胡超	邓文兵

客户:

深圳市视壮科技有限公司

视 壮 料 號 CUSTOMER P/N	
视 壮 名 稱 CUSTOMER	
品 名 / 規 格 DESCRIPTION	

CUSTOMER APPROVAL/客户审核			
APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 审核	TESTED BY 檢 測

Product Number: AN2450-74BC05RS-B

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz /5150-5850MHz
S.W.R.	≤ 2.0
Antenna Gain	2400~2500MHz(2.0dBi Max), 5150-5850MHz(2.0dBi Max)
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	PCB + Spring
Material of Plastic	ABS/POM/PC+PBT
Cable Type	RG178
Connector Type	RP SMA PLUG
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80°C

2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification



Tengxiang Technology.Inc

Product Number: AN2450-74BC05RS-B

Product Name: Antenna

C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU

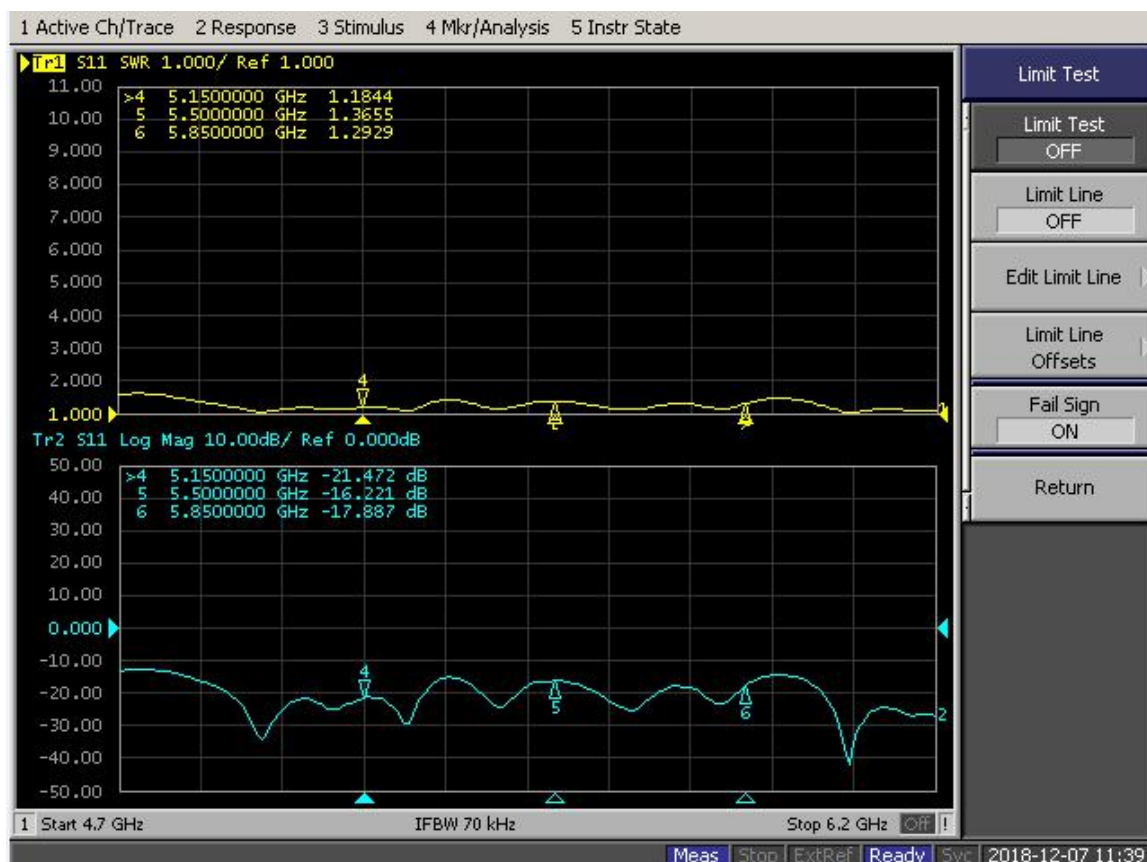
3. 2.4G Antenna - S Parameter Test Data



4. 2.4G Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	63.60	68.00	64.80
Gain (dBi)	1.5	2.0	1.6

5. 5G Antenna - S Parameter Test Data

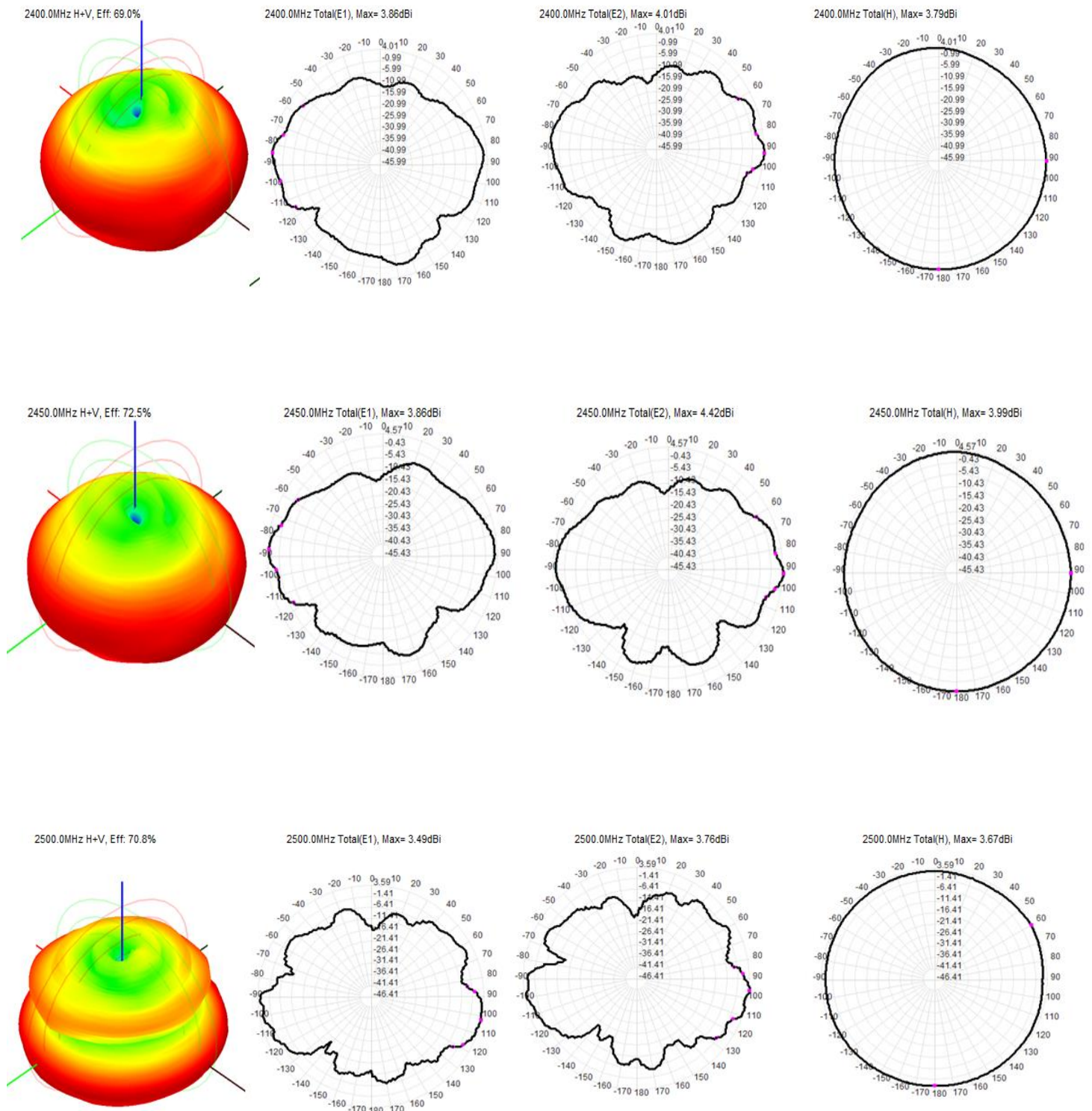


6. 5G Antenna - Radiation Pattern Test Data

Frequency (MHz)	5150	5500	5850
Efficiency (%)	57.1	66.8	61.1
Gain (dBi)	1.7	2.0	1.5

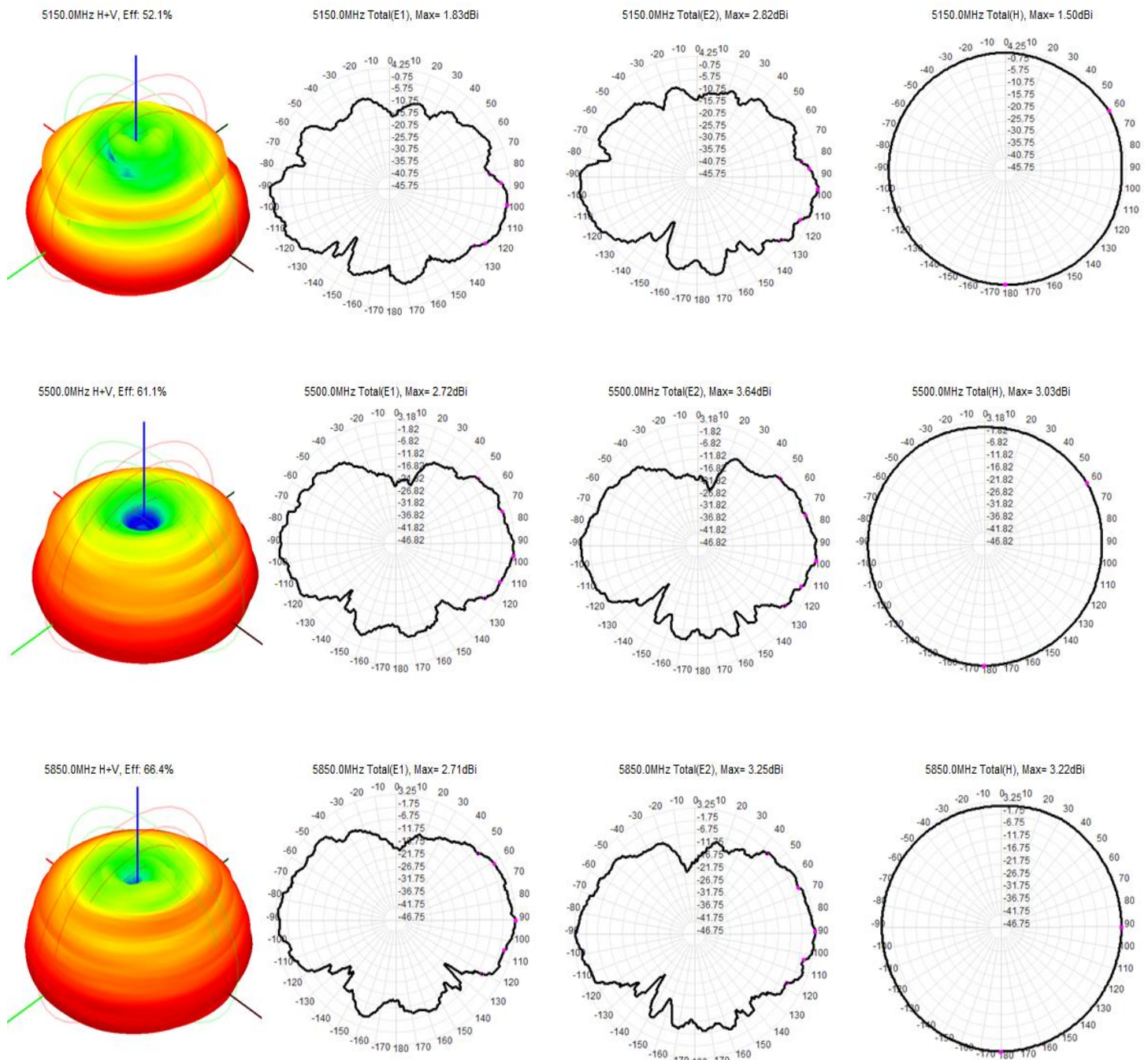
Product Number: AN2450-74BC05RS-B

Product Name: Antenna



Product Number: AN2450-74BC05RS-B

Product Name: Antenna



5. Mechanical Drawing (See attached files)

1	2	3	4	5	6	7	8																																																																				
HF☐ RoHS2.0☒ REACH☐ CONFIDENTIAL					<table><tr><td>SIGN</td><td>DATE</td><td>DESCRIPTION</td><td>APPROVER</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			SIGN	DATE	DESCRIPTION	APPROVER																																																																
SIGN	DATE	DESCRIPTION	APPROVER																																																																								
Note: 1.Mark * is important dimension;"Cpk "Identify for process control(CpK≥1.33). 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.																																																																											
<table><tr><td>5</td><td>AN03-514PB</td><td>PING</td><td>POM</td><td>BLACK</td><td>2</td></tr><tr><td>4</td><td>SMA540-N8MRAN79-B</td><td>RP-SMA Plug</td><td>POM</td><td>BLACK</td><td>1</td></tr><tr><td>3</td><td>AN1201-05B</td><td>BODY3</td><td>PC+PBT</td><td>BLACK</td><td>1</td></tr><tr><td>2</td><td>AN9203-02B-C</td><td>BODY2</td><td>ABS</td><td>BLACK</td><td>1</td></tr><tr><td>1</td><td>AN7401-02B</td><td>BODY1</td><td>ABS</td><td>BLACK</td><td>1</td></tr><tr><td>No.</td><td>Part Number</td><td>Name</td><td>Material</td><td>Finish</td><td>Q'ty</td></tr></table>					5	AN03-514PB	PING	POM	BLACK	2	4	SMA540-N8MRAN79-B	RP-SMA Plug	POM	BLACK	1	3	AN1201-05B	BODY3	PC+PBT	BLACK	1	2	AN9203-02B-C	BODY2	ABS	BLACK	1	1	AN7401-02B	BODY1	ABS	BLACK	1	No.	Part Number	Name	Material	Finish	Q'ty	Tengxiang Electronics Co., Ltd. <table><tr><td colspan="4">TITLE: 2.4/5GHz Antenna</td></tr><tr><td colspan="2">PART NO.: AN2450-74BC05RS-B</td><td colspan="2">CUSTOMER P/N: /</td></tr><tr><td>APP BY</td><td>CHK BY</td><td>RF BY</td><td>DES BY</td></tr><tr><td></td><td></td><td></td><td>HC 2021.01.12</td></tr><tr><td colspan="2">UNITS: mm</td><td colspan="2">Tolerance</td></tr><tr><td colspan="2">SCALE: 1/1</td><td colspan="2">X.X ±0.5</td></tr><tr><td colspan="2">REVISION: A</td><td colspan="2">X.XX ±0.2</td></tr><tr><td colspan="2"></td><td colspan="2">X° ±1</td></tr></table>			TITLE: 2.4/5GHz Antenna				PART NO.: AN2450-74BC05RS-B		CUSTOMER P/N: /		APP BY	CHK BY	RF BY	DES BY				HC 2021.01.12	UNITS: mm		Tolerance		SCALE: 1/1		X.X ±0.5		REVISION: A		X.XX ±0.2				X° ±1	
5	AN03-514PB	PING	POM	BLACK	2																																																																						
4	SMA540-N8MRAN79-B	RP-SMA Plug	POM	BLACK	1																																																																						
3	AN1201-05B	BODY3	PC+PBT	BLACK	1																																																																						
2	AN9203-02B-C	BODY2	ABS	BLACK	1																																																																						
1	AN7401-02B	BODY1	ABS	BLACK	1																																																																						
No.	Part Number	Name	Material	Finish	Q'ty																																																																						
TITLE: 2.4/5GHz Antenna																																																																											
PART NO.: AN2450-74BC05RS-B		CUSTOMER P/N: /																																																																									
APP BY	CHK BY	RF BY	DES BY																																																																								
			HC 2021.01.12																																																																								
UNITS: mm		Tolerance																																																																									
SCALE: 1/1		X.X ±0.5																																																																									
REVISION: A		X.XX ±0.2																																																																									
		X° ±1																																																																									
1	2	3	4	5	6	7	8																																																																				

產品包裝規範

PACKING CRITERION

Date: 2021.01.12

Page: 1 of 1

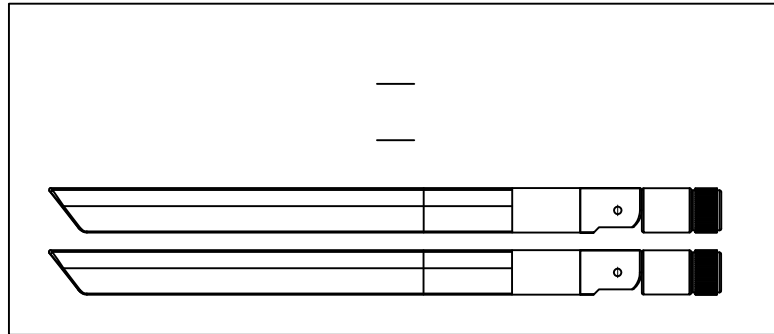
Part Number : AN2450-74BC05RS-B

Revision : A

Name: Antenna

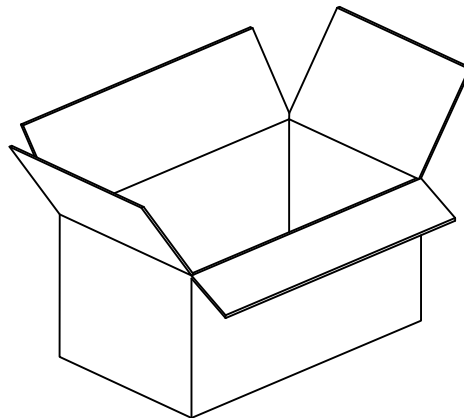
Customer : ALL

1 . Enter PE bag。



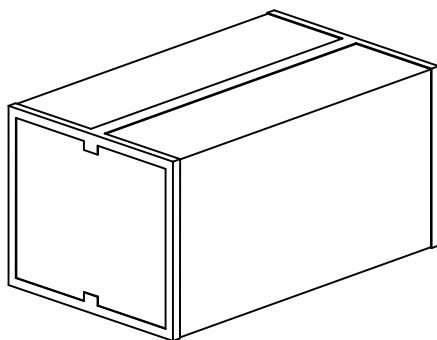
20pcs/ PE bag

2.PACKING 。

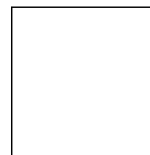


1000pcs/Carton

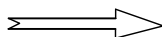
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : WJ

DESIGNED BY : HC