



腾祥电子  
TENGXIANG ELECTRONIC

# Tengxiang Technology.Inc

Product Number: AN0660-34BC01SM-B

Product Name: Antenna

## Specification For Approval

Customer: \_\_\_\_\_

Customer P/N: \_\_\_\_\_

Tengxiang P/N: AN0660-34BC01SM-B

Description : ANTENNA BLACK

Tengxiang Checked By:	Customer Approved By:
<p>工程: HC 射频: 韦佳</p> 	



腾祥电子  
TENGXIANG ELECTRONIC

# Tengxiang Technology.Inc

NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China

TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxiang.cn>

Product Number: AN0660-34BC01SM-B

Product Name: Antenna

## 1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	617~ 960 MHz / 1710~2690 MHz/ 3300~6000 MHz
V.S.W.R.	<= 4.0
Antenna Gain	4.61 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Material of Plastic	ABS
Cable Type	RG178
Connector Type	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	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna	Set DUT on Antenna Chamber; make individual	Directive DUT specification



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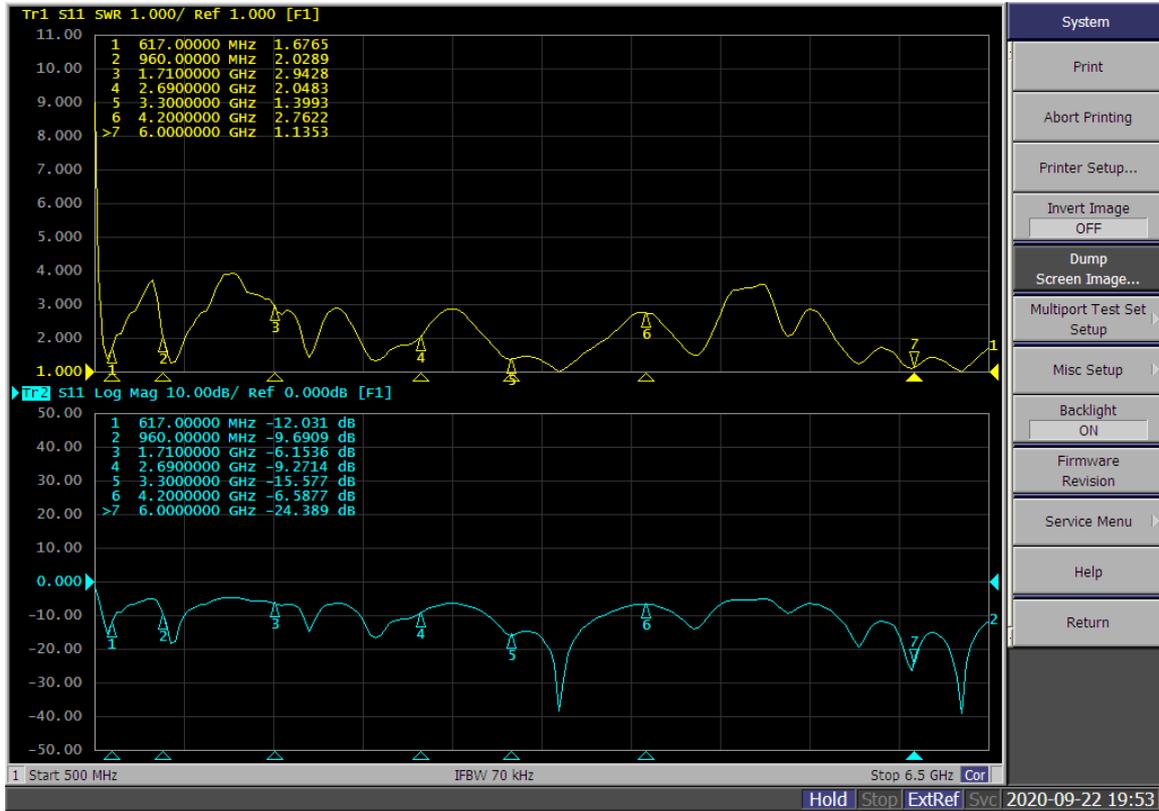
Product Name: Antenna

	Gain	calibration to test	
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: 80°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)

Product Number: AN0660-34BC01SM-B

Product Name: Antenna

### 3. Antenna - S Parameter Test Data

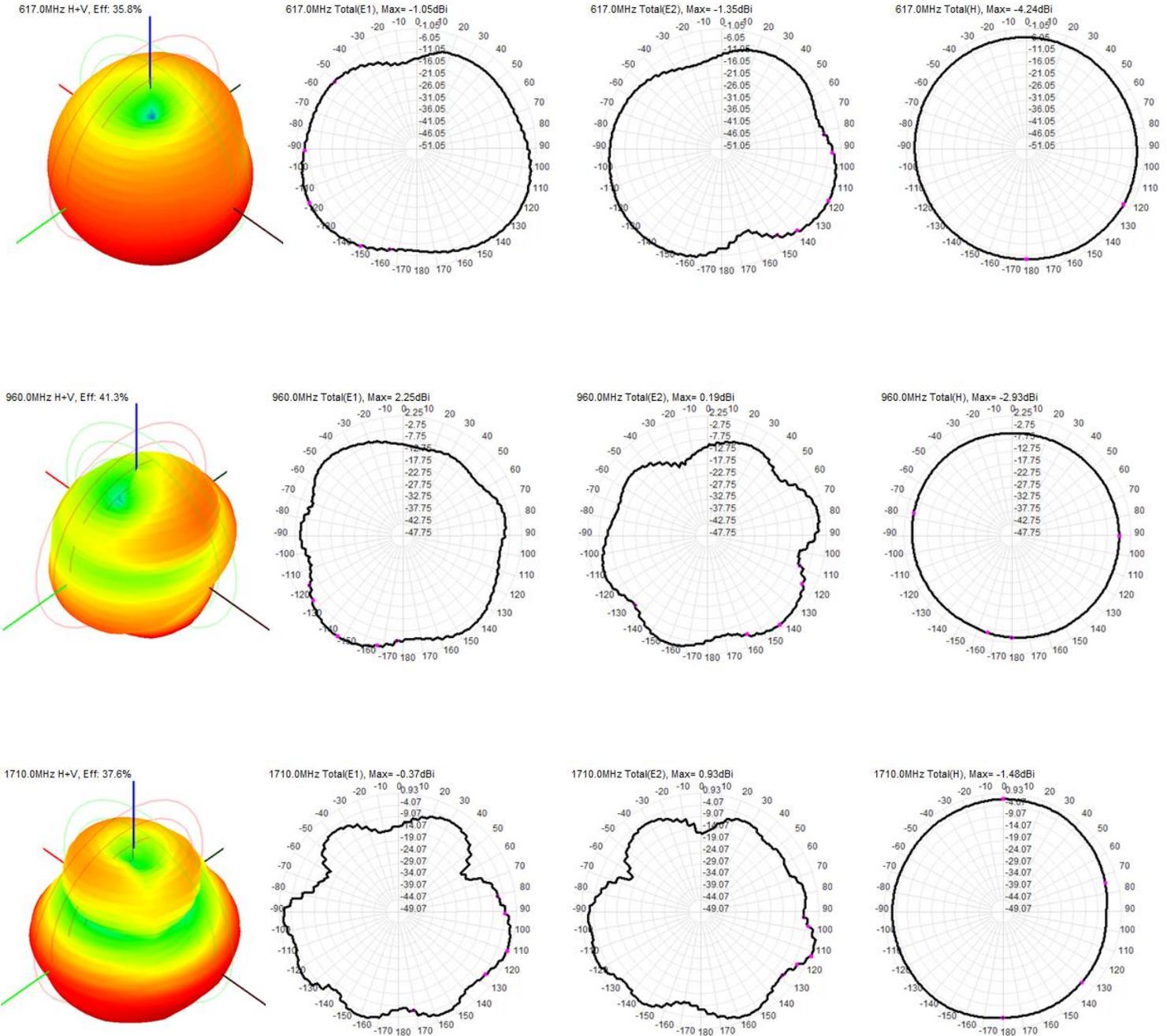


### 4. Antenna - Radiation Pattern Test Data

<b>FEITUKEJI</b>						
Frequency ID	1	8	9	20	21	48
Frequency (MHz)	617.0	960.0	1710.0	2700.0	3300.0	6000.0
Efficiency (dBi)	-4.47	-3.84	-4.25	-2.25	-2.30	-3.54
Gain (dBi)	-0.75	2.25	0.93	3.11	2.55	4.61
Efficiency (%)	35.76	41.31	37.57	59.55	58.92	44.22
Directivity (dB)	3.71	6.09	5.18	5.36	4.84	8.16
Peak Gain Position (Theta)	59.00	33.00	68.00	128.00	108.00	28.00
Peak Gain Position (Phi)	30.00	180.00	90.00	300.00	90.00	90.00
Efficiency ThetaPol (%)	31.56	32.86	34.50	52.68	54.97	34.59
Efficiency PhiPol (%)	4.20	8.45	3.07	6.86	3.96	9.63
Upper Hem. Efficiency (%)	9.42	13.25	8.90	36.47	34.10	16.70
Lower Hem. Efficiency (%)	26.34	28.06	28.67	23.08	24.82	27.52

Product Number: AN0660-34BC01SM-B

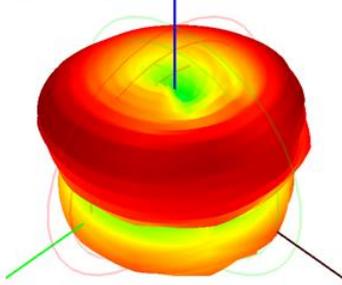
Product Name: Antenna



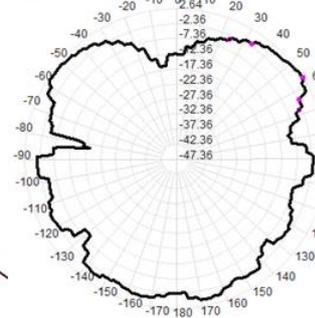
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Product Name: Antenna

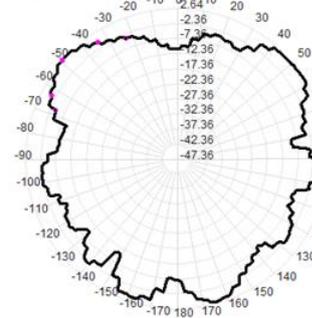
2700.0MHz H+V, Eff: 59.5%



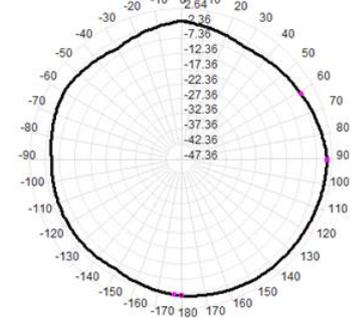
2700.0MHz Total(E1), Max= 2.30dBi



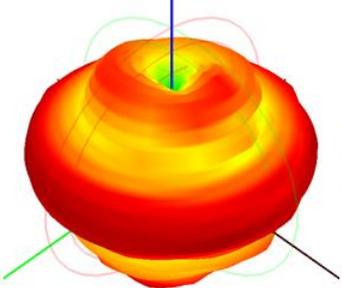
2700.0MHz Total(E2), Max= 2.64dBi



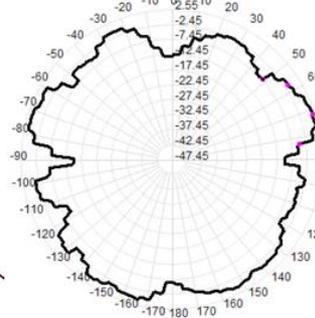
2700.0MHz Total(H), Max= 0.73dBi



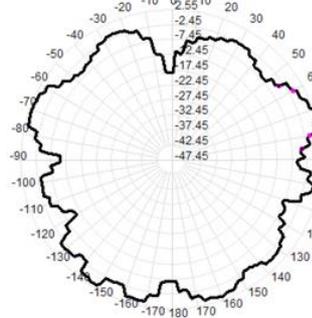
3300.0MHz H+V, Eff: 58.9%



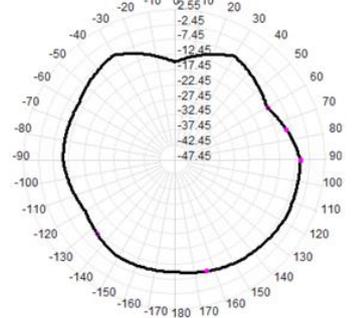
3300.0MHz Total(E1), Max= 1.28dBi



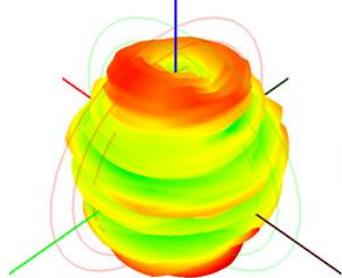
3300.0MHz Total(E2), Max= 2.55dBi



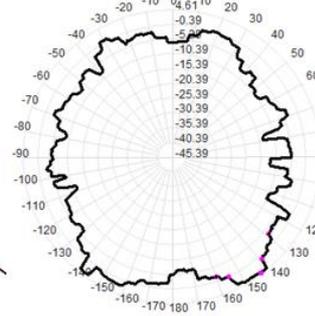
3300.0MHz Total(H), Max= -5.92dBi



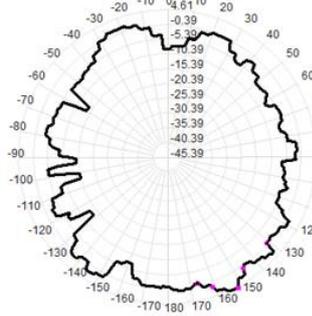
6000.0MHz H+V, Eff: 44.2%



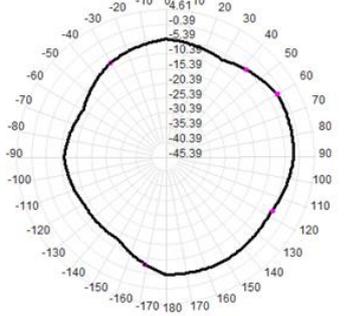
6000.0MHz Total(E1), Max= 3.62dBi



6000.0MHz Total(E2), Max= 4.61dBi



6000.0MHz Total(H), Max= -2.44dBi

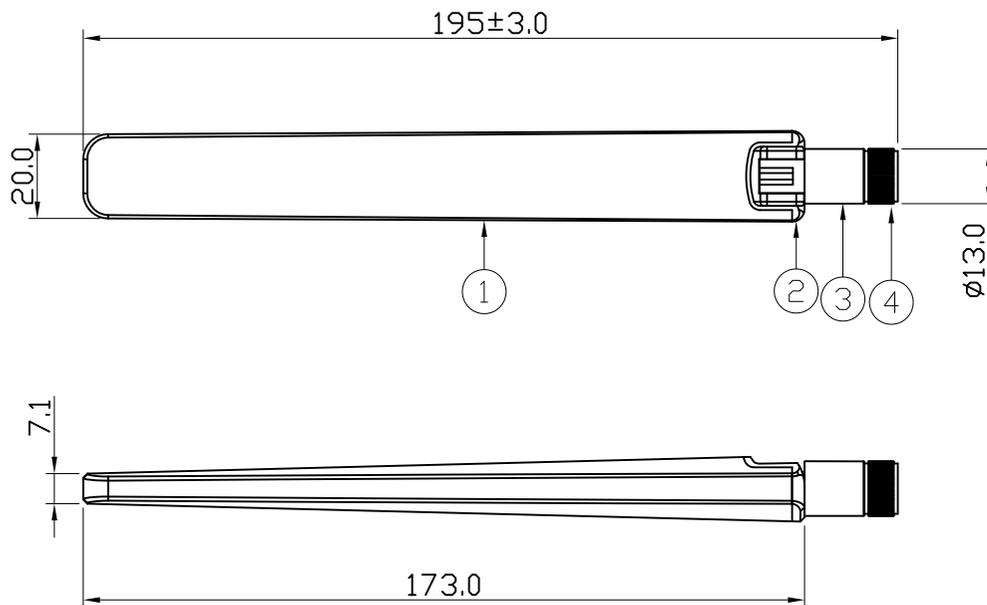


## 5. Mechanical Drawing (See attached files)

# RoHS

## Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

1. Dimension: Take \* is the important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please

4	SMA130	SMA PLUG		Black	1
3	AN34-03B	Body3	ABS	Black	1
2	AN34-02B	Body2	ABS	Black	1
1	AN34-01B	Body1	ABS	Black	1
No.	Part Number	Name	Material	Finish	Q'ty



**Tengxiang Technology Inc.**

TITLE: 617~ 960 MHz / 1710~2690 MHz / 3300~6000 MHz Antenna

PART NO.: AN0660-34BC01SM-B

DWG NAME:

APP BY	CHK BY	RF BY	DES BY	UNITS: mm	Tolerance
			HC	SCALE: 1/1	X.X ±0.3
			2020.09.23	REVISION: A	X.XX ±0.1
					X° ±1

# 產品包裝規範

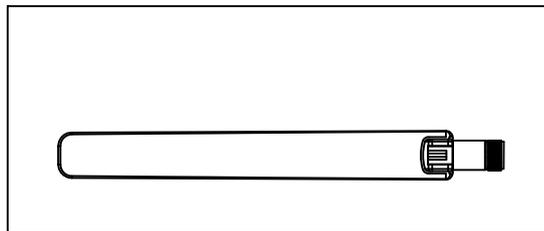
## PACKING CRITERION

Date: 2020.09.23

Page: 1 of 1

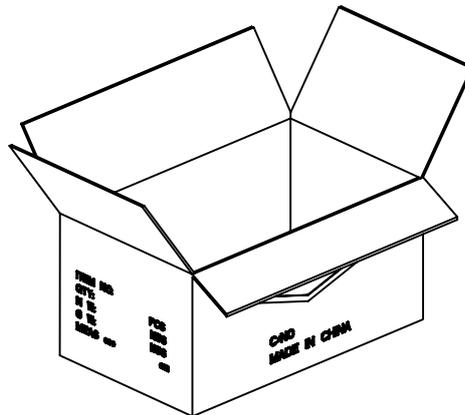
Part Number : AN0660-34BC01SM-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



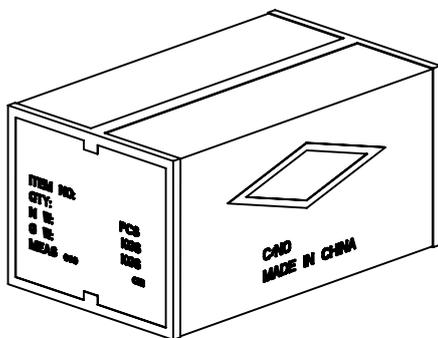
20pcs/ PE bag

2.PACKING 。

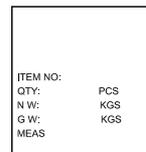


1000pcs/Carton

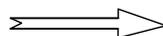
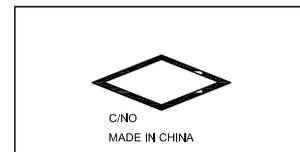
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : TOM

DESIGNED BY : HC