



Tengxiang Technology.Inc

Product Number: AN2400-75F16BX-W

Product Name: Antenna

Specification For Approval

Customer: _____

Customer P/N: _____

Tengxiang P/N: AN2400-75F16BX-W

Description : 2.4G ANTENNA With 1.37Cable L=370mm

Tengxiang Checked By:	Customer Approved By:
工程：邓文兵 射频：韦佳 	



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.tengxiang.cn>

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
V.S.W.R.	≤ 2.0
Antenna Gain	5 dBi
Polarization	Linear
Impedance	50 Ohm
Radiation	Omni-directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	TPE / ABS / PC+PBT
Cable Type	OD1.37 Black
Connector Type	I-PEX
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

Product Number: AN2400-75F16BX-W

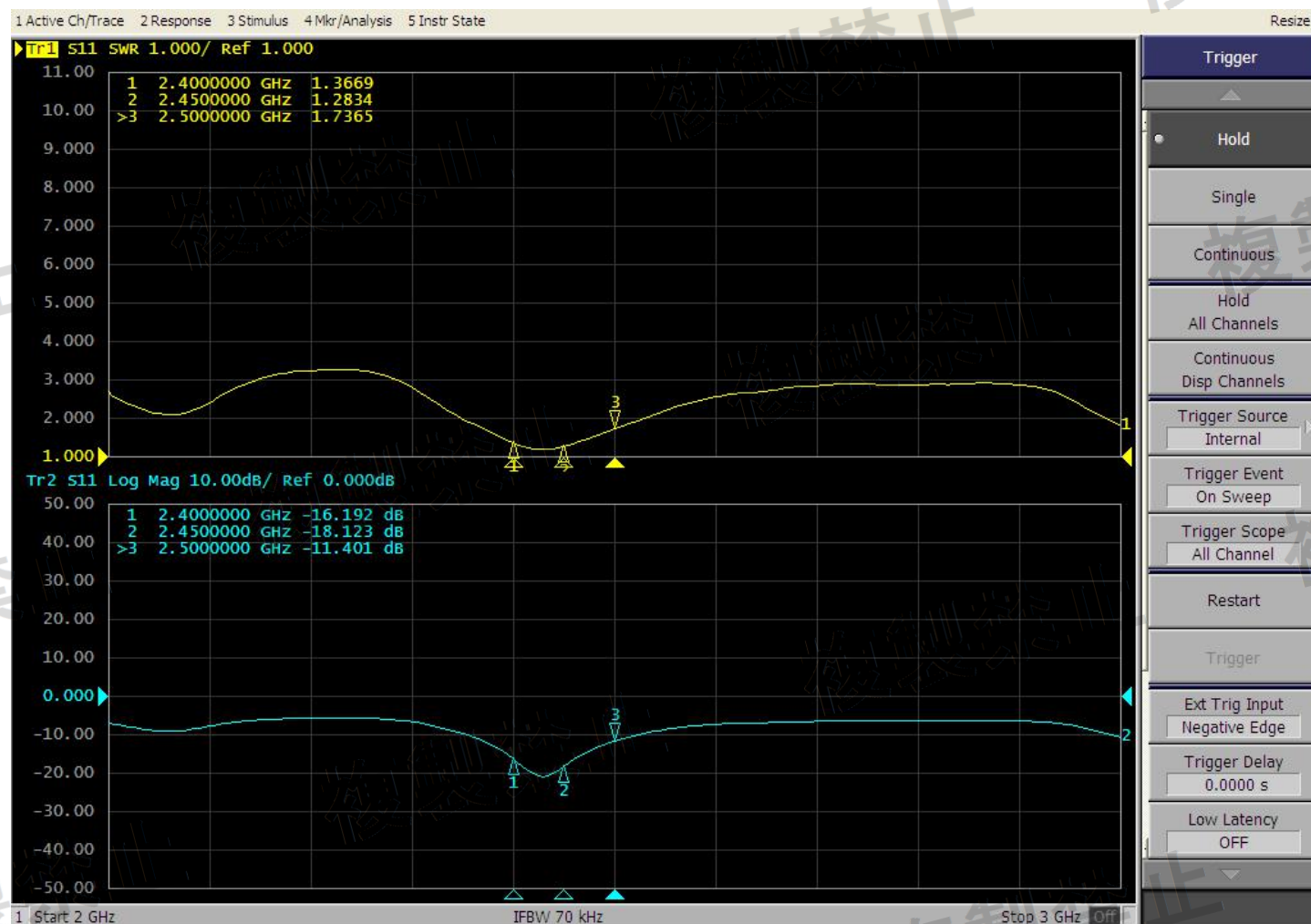
Product Name: Antenna

	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: 24 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: 24 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: AN2400-75F16BX-W

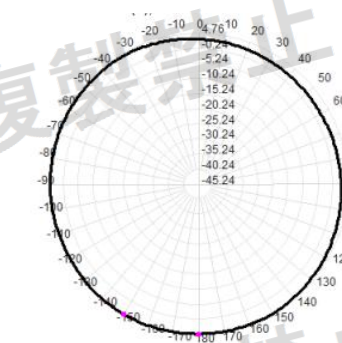
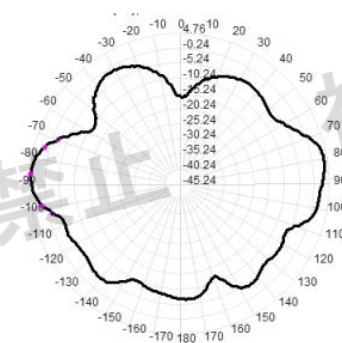
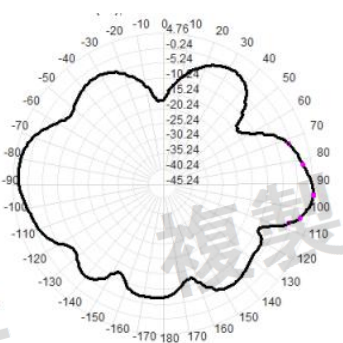
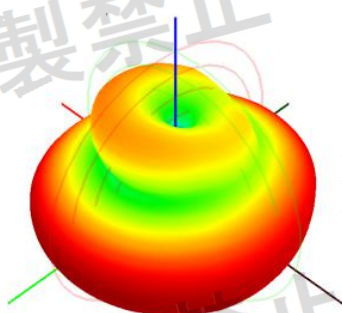
Product Name: Antenna

3. Antenna - S Parameter Test Data



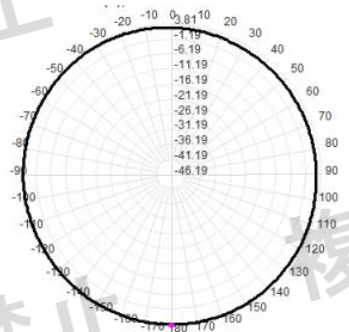
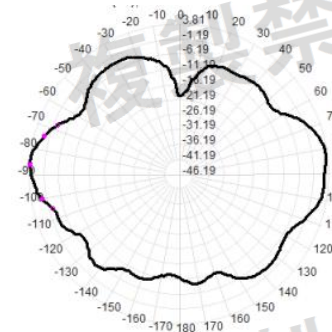
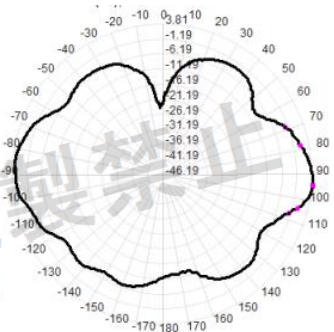
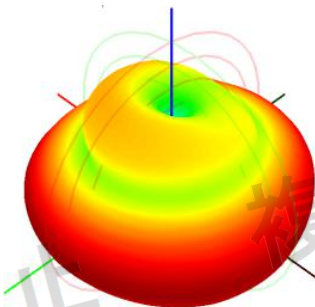
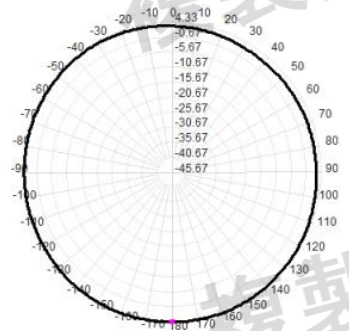
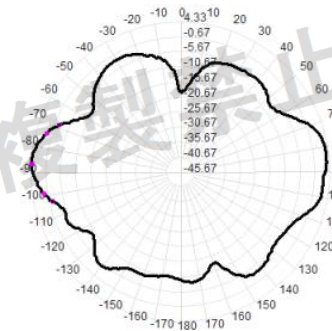
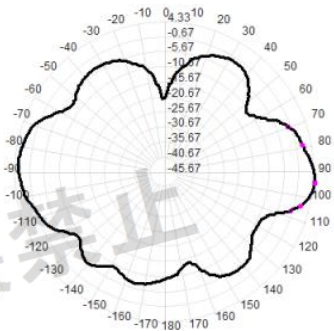
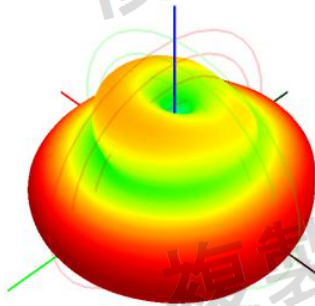
4. Antenna - Radiation Pattern Test Data

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)	5.26	5.18	5.04	4.99	4.85	4.83	4.84	4.72	4.67	4.43	4.31
Efficiency (%)	72.63	72.77	71.18	71.09	69.33	70.19	71.37	70.91	71.63	68.85	67.98

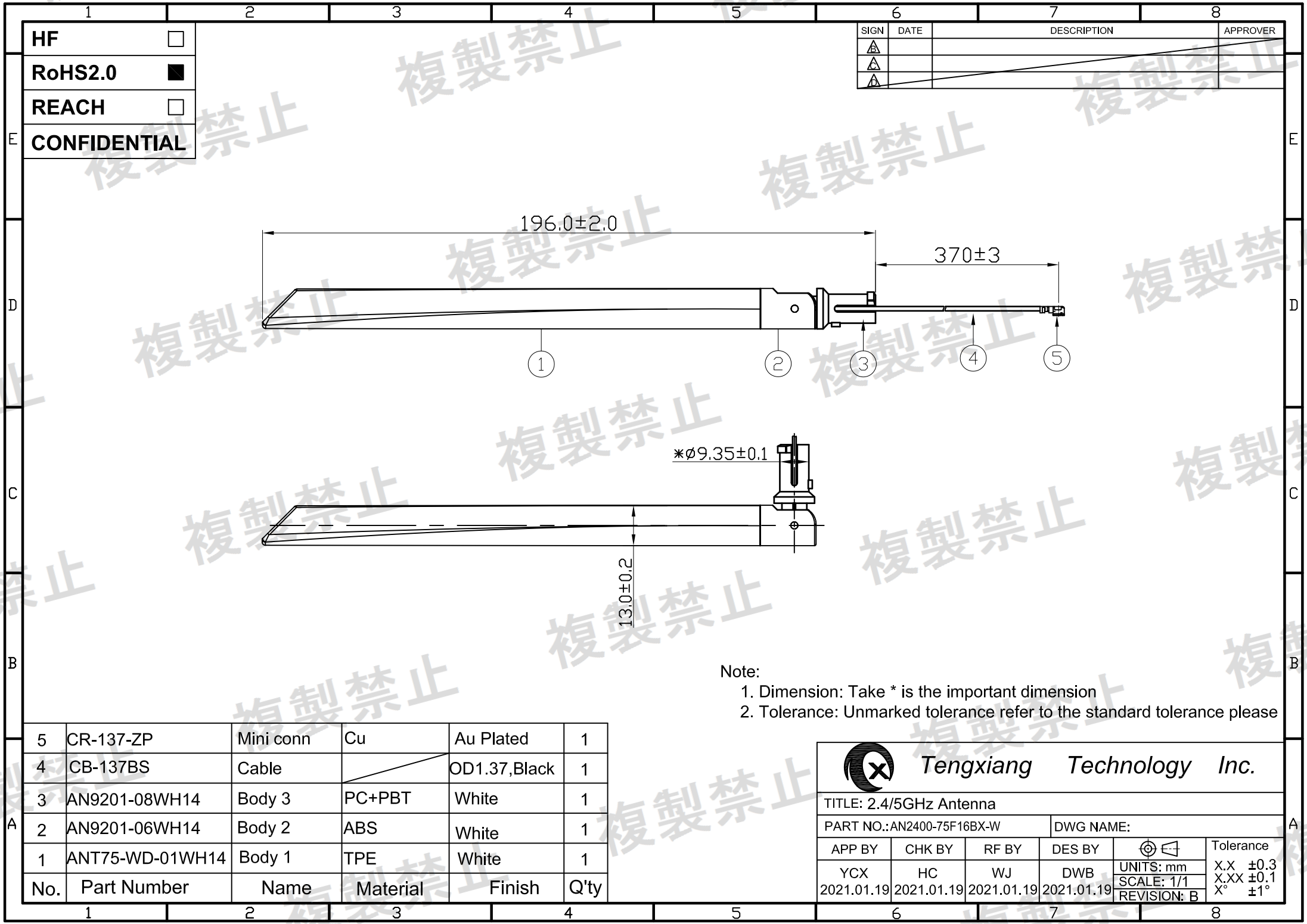


Product Number: AN2400-75F16BX-W

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5. Mechanical Drawing (See attached files)



產品包裝規範

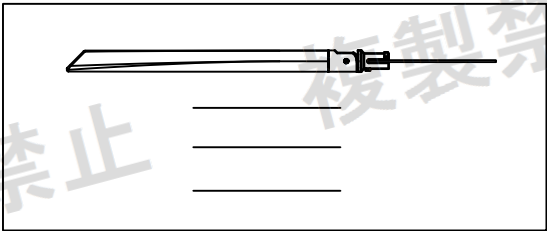
PACKING CRITERION

Date: 2021.01.19

Page: 1 of 1

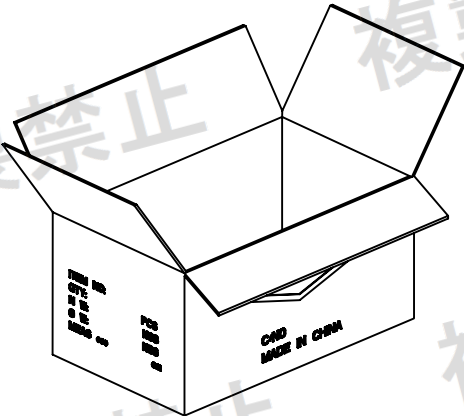
Part Number : AN2400-75F16BX-W	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



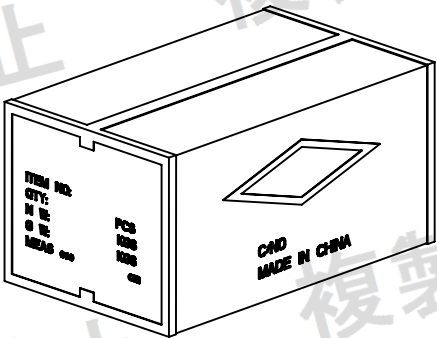
20pcs/ PE bag

2.PACKING 。

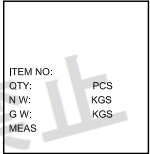


1000pcs/Carton

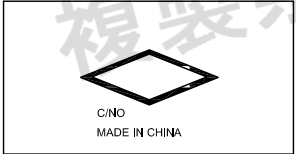
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : TOM

DESIGNED BY : HC