



SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

APPROVAL SHEET

Customer Name SHENZHEN XIAOMI LLET COMMUNICATION Co., LTD

Product Model NR01

Customer P/N 1710703000001A

Specifications PCB antenna, BT-2.4G, 5dBi, 1.37 black RF cable L=135mm

Southstar P/N 3.N101.1512

Production date 2024.10.24

Revision V1.0

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

Manufacturers: DONGGUAN SOUTH STAR TECHNOLOGY CO., LTD

Production address: 3, Chigang Nanfang 1st Road, Humen Town, Dongguan City,
Guangdong Province

Tel: 0755-27474071 0769-88086190

Http: //www.southstar-tech.com

History

Version	Date	Change Description	Note
V1.0	2024.10.24	Initial version	

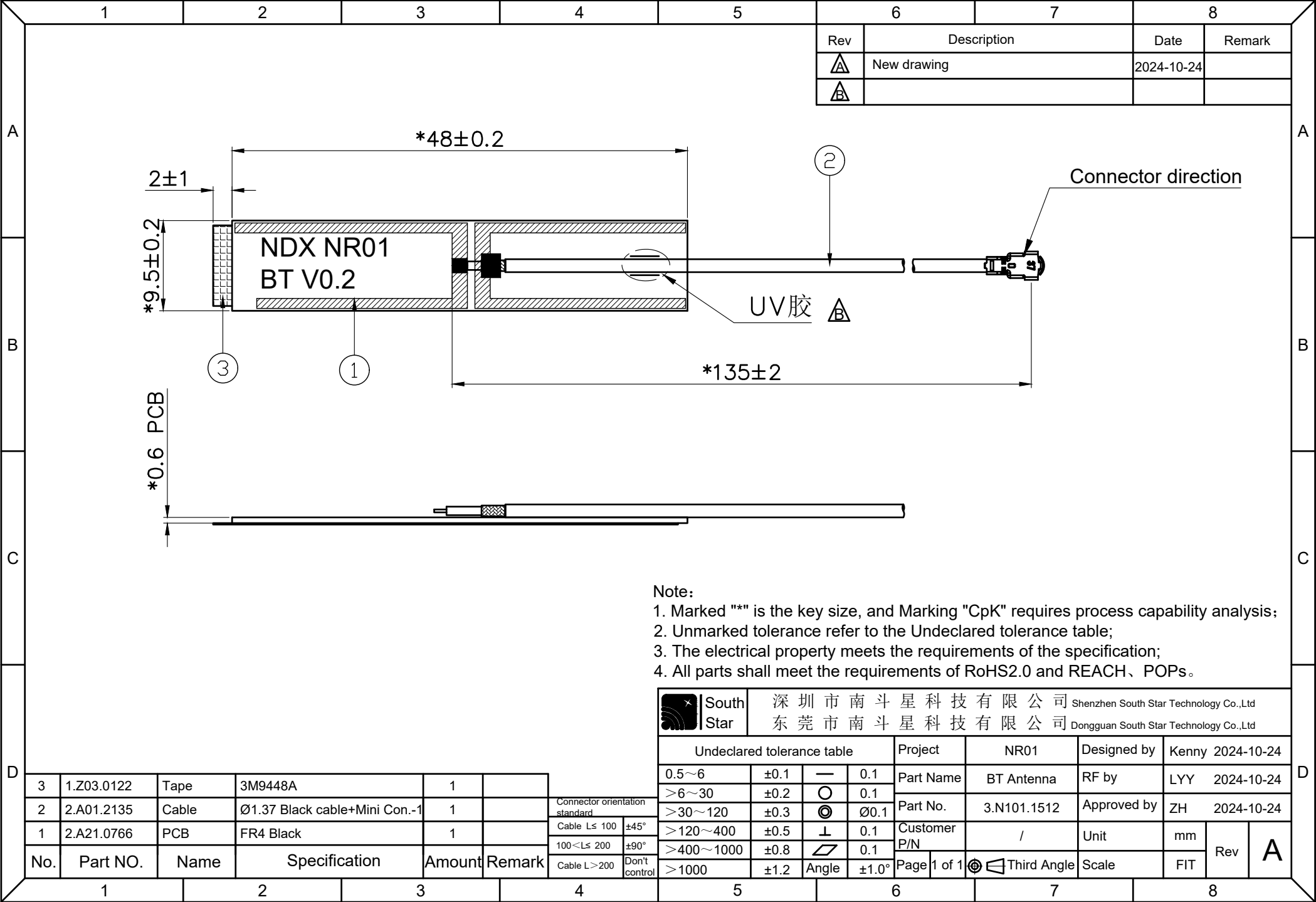
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The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHz ~ 2500MHz
VSWR	<2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Peak Gain	4.41dBi@2450MHz
Note:	
B. Material & Mechanical Characteristics	
射频材料 Material of Radiator	PCB
射频线类型 Cable Type	Ø1.37mm black
接头类型 Connector Type	IPEX
C. 环境 Environmental	
工作温度 Operation Temperature	-40°C ~ +70°C
存放温度 Storage Temperature	-40°C ~ +70°C



Test Equipment & Conditions:

1. NetWork Analyzers:

Keysight E5071C

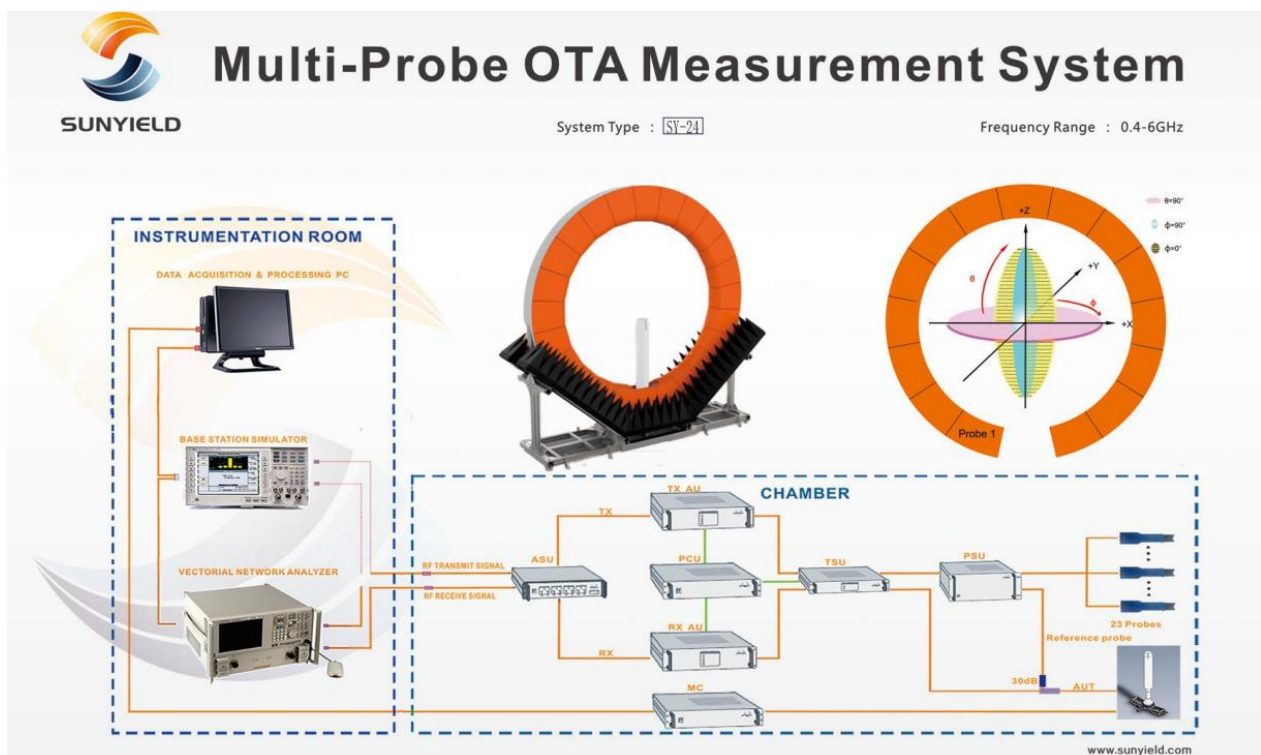
2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System

4. Calibration time

2024. 03. 26~2025. 03. 25



E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2 Del]

Marker	Freq (GHz)	Mag (dB)
1	2.400000	-11.115
2	2.450000	-15.721
3	2.500000	-24.124

Tr2 S11 Smith (R+jX) Scale 1.000U [F2]

Marker	Freq (GHz)	R (Ω)	X (Ω)	SWR
1	2.400000	30.726	11.989	795.03
2	2.450000	48.341	16.197	1.0522
3	2.500000	56.142	2.3277	148.19

Tr3 S11 SWR 1.000/ Ref 1.000 [F2]

Marker	Freq (GHz)	SWR
1	2.400000	1.7706
2	2.450000	1.3923
3	2.500000	1.1331

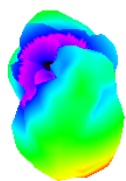
Start 1.5 GHz IFBW 70 kHz Stop 3 GHz

Efficiency & Gain:

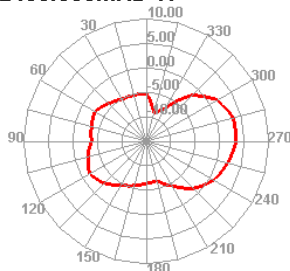
Freq (MHz)	Effi (%)	Gain (dBi)
2400	70	5.23
2410	70.6	4.84
2420	69.49	4.42
2430	70.49	4.28
2440	66.55	4.35
2450	70.75	4.41
2460	65.88	4.61
2470	67.63	4.91
2480	69.35	5.56
2490	64.95	6.03
2500	66.48	6.26

Antenna 3D & 2D pattern:

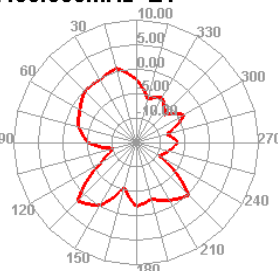
2400.000MHz



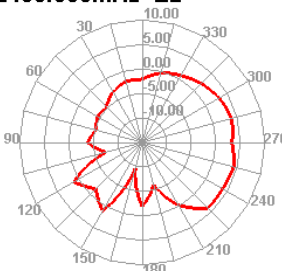
2400.000MHz H



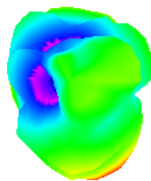
2400.000MHz E1



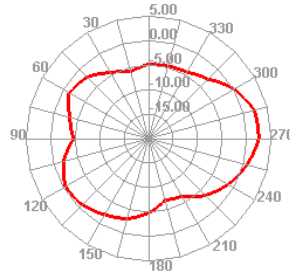
2400.000MHz E2



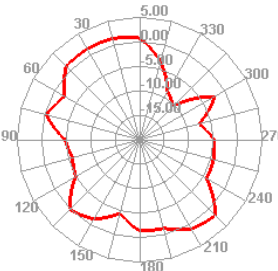
2450.000MHz



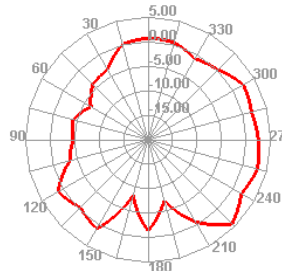
2450.000MHz H



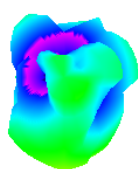
2450.000MHz E1



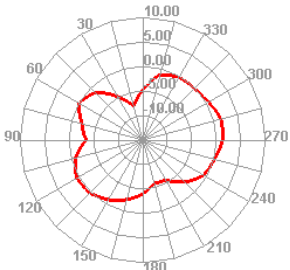
2450.000MHz E2



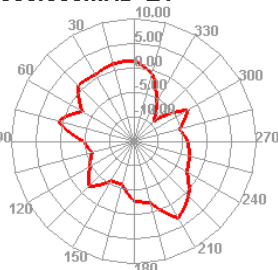
2500.000MHz



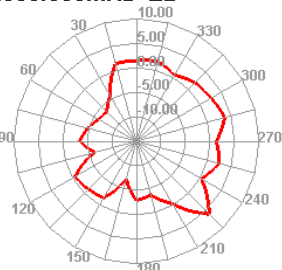
2500.000MHz H



2500.000MHz E1

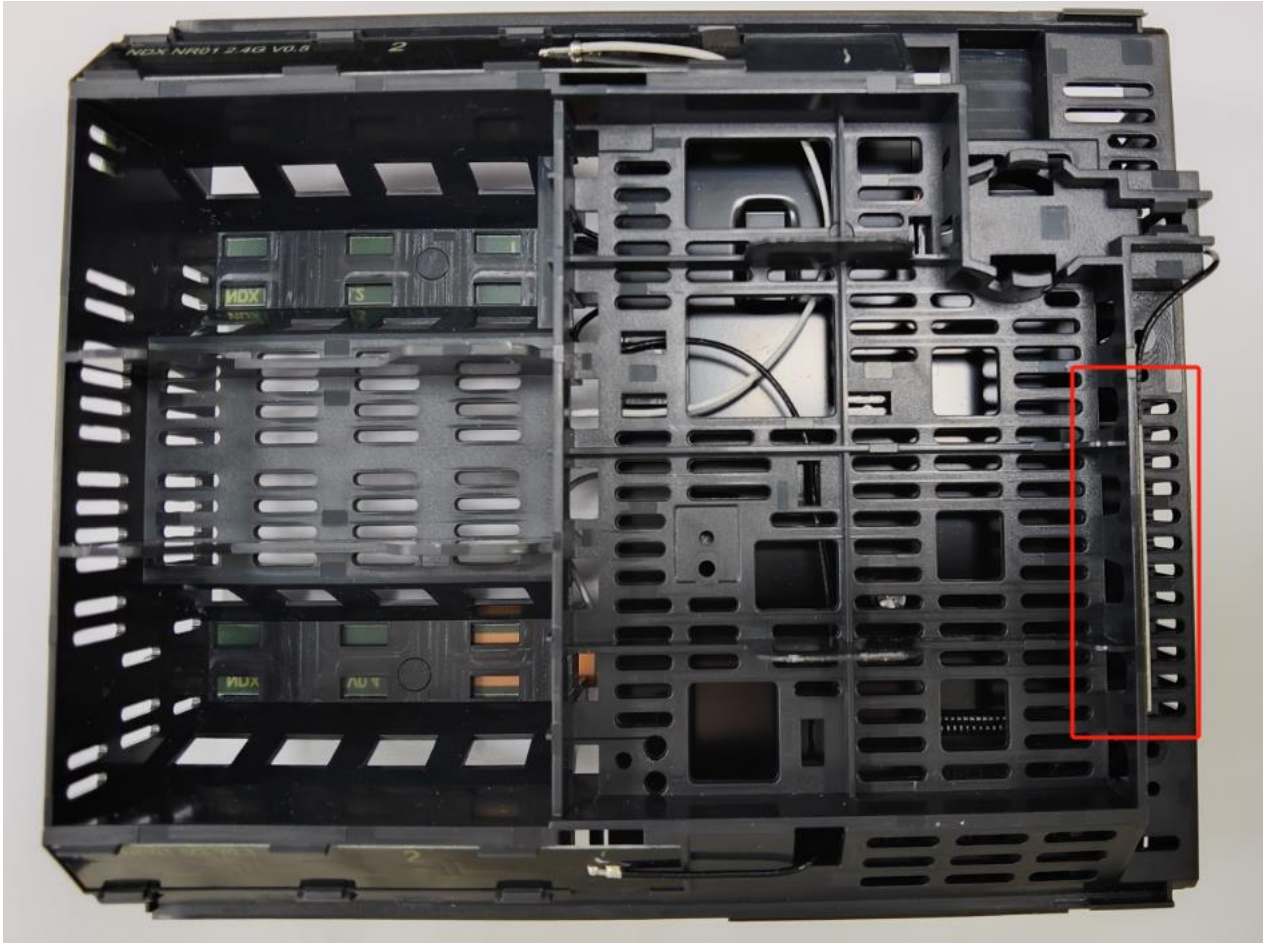


2500.000MHz E2





Antenna assembly picture:



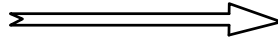


Date: 2024-10-24

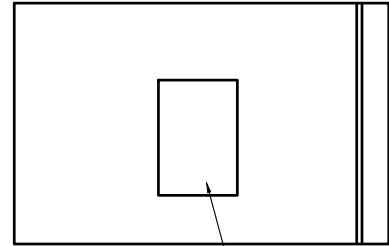
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Name : NR01 Antenna	Version: A
	Customer:

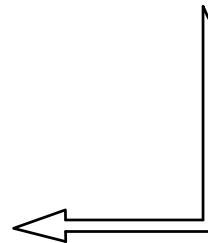
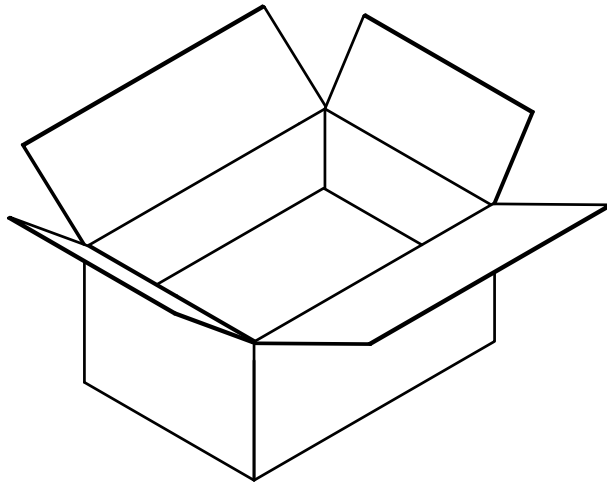
1. The Product



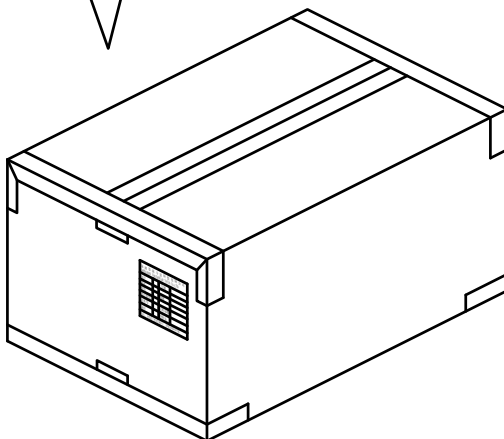
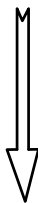
2. 100PCS/per Bag



Label



3. Packing (subject to actual packing) .



DESIGNED By: Kenny

APPROVED By: ZH