

SHENZHEN MTCCO., LTD



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SHENZHEN MTCCO., LTD

APPROVAL SHEET

MANUFACTORY: SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

DESCRIPTION: BT Antenna SPECIFICATION: 1.13 Gray, total
length, L=150mm

PARTNO.: 3. N101. 2236 MODEL NO.: L470R

PARTNO.: 304ANT00753 DATE: 2026.01.23

APPROVED BY

Engineer	PCB Engineer	Safety Compliance Engineer	Parts Engineer	Manager
APPROVED BY				
date:				

Note: This acknowledgement letter needs to be accompanied by detailed sample specifications, drawing materials, etc. There are four complete sets of materials in total. The number of samples shall not be less than 3.



History

Version	Date	Change Description	Note
1.0	2026.01.23	First edition	



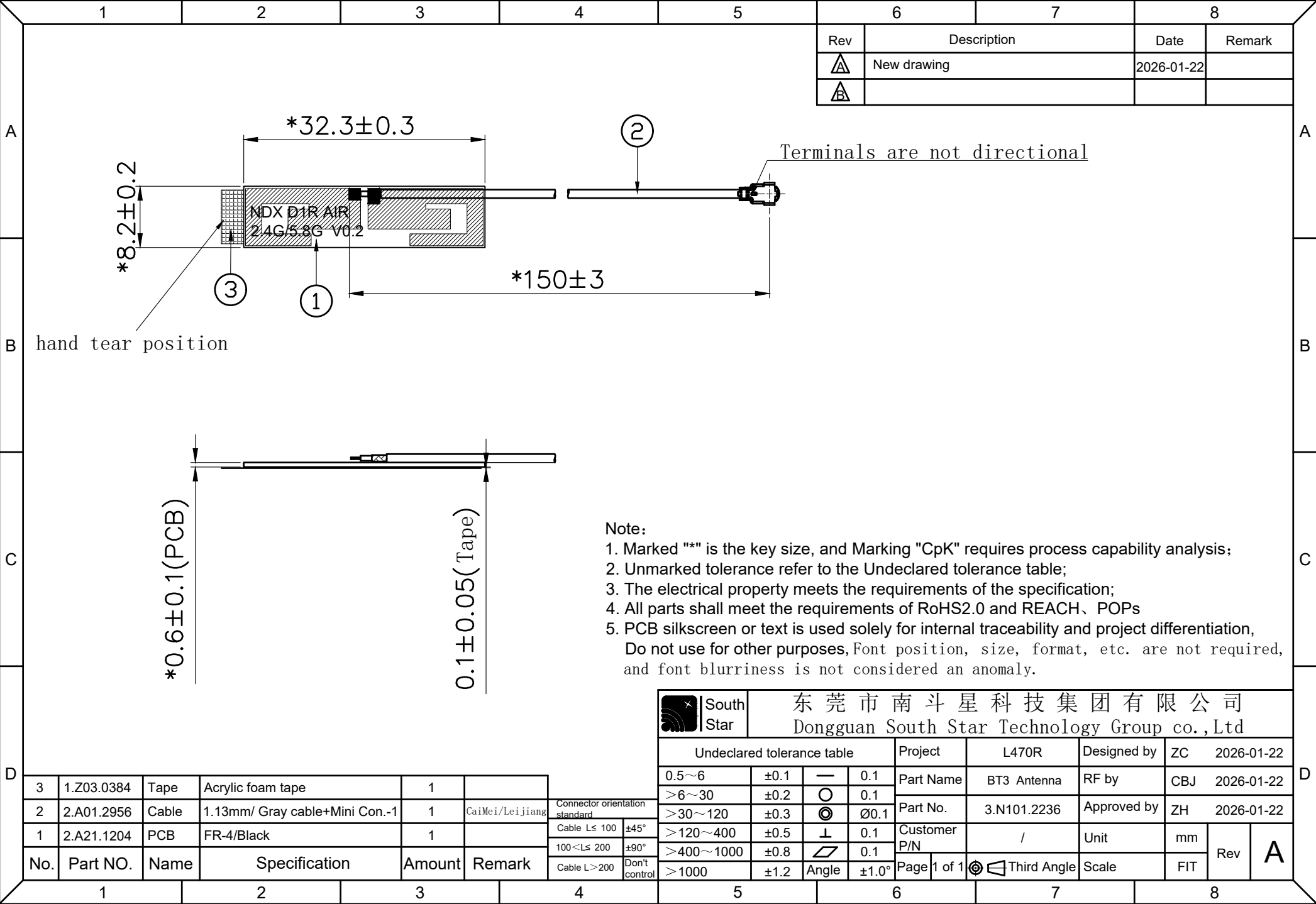
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The basic parameters:

A. Electrical Characteristics	
Frequency	2400-2485MHz
VSWR	≤ 2
Efficiency	>50%
Impedance	50 Ohm
Polarization	Linear
Gain	2.03dBi@2400MHz 1.91dBi@2440MHz 2.28dBi@2480MHz
Note:	
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Cable Type	Ø1.13mm Gray
Cable length	150mm
Connector Type	Mini Con.-1
Antenna Dimensions	32.3mm* 8.2mm* 0.6mm
weight	
C. Environmental	
Operation Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C





South
star

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Test Equipment & Conditions

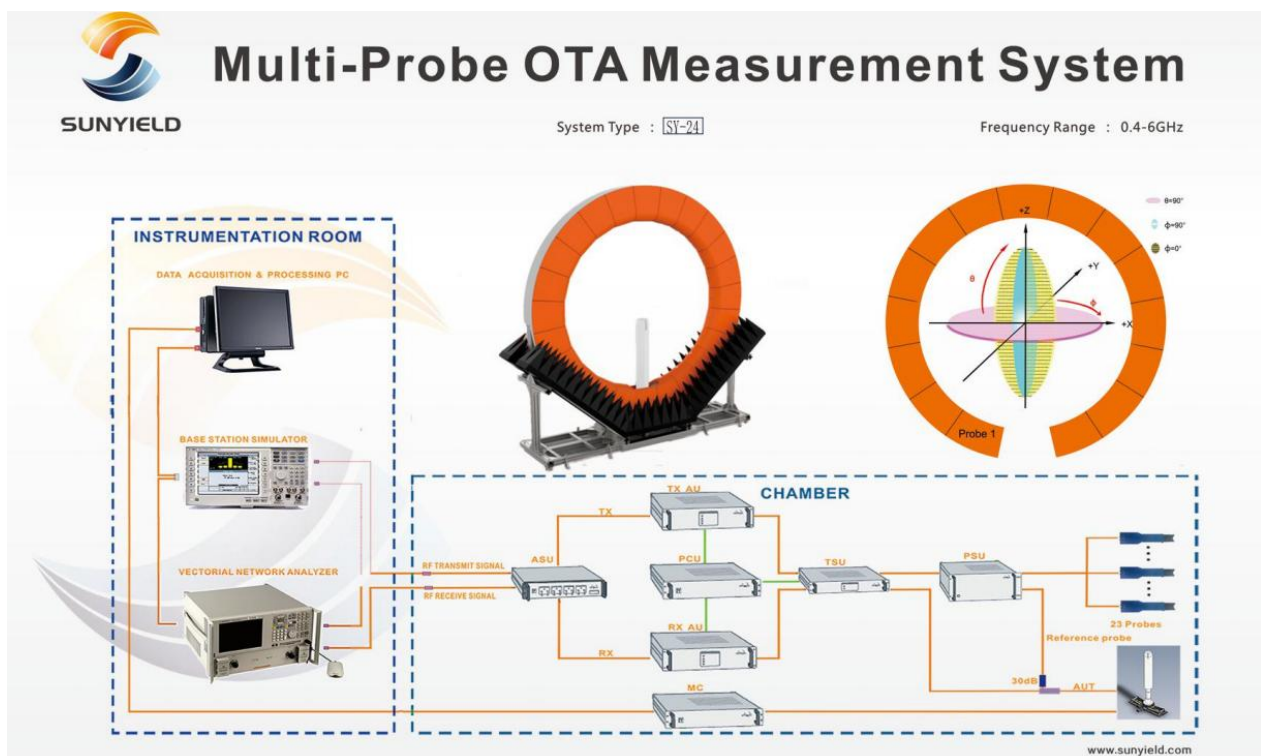
1. NetWork Analyzers:

Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:





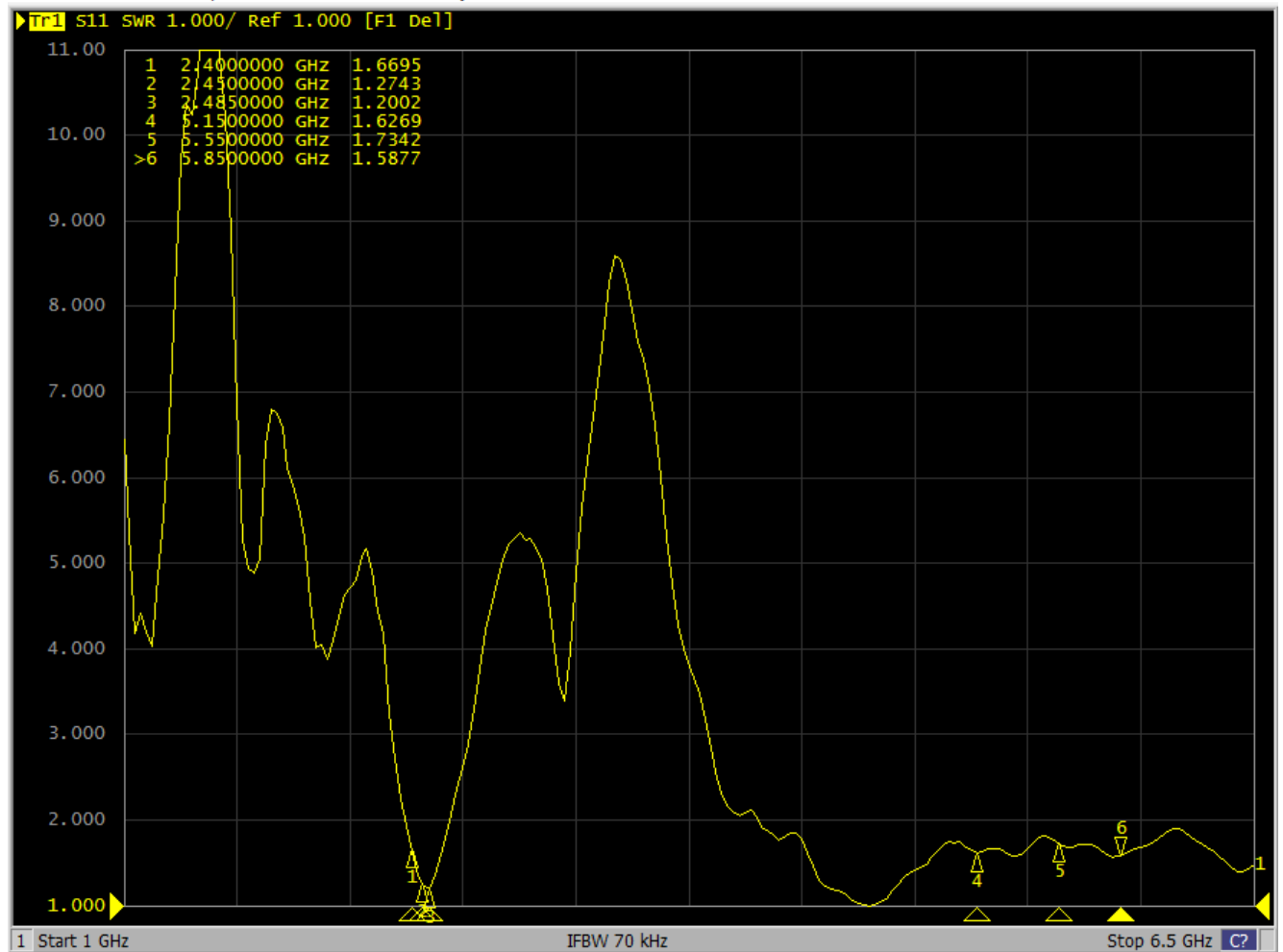
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Antenna Impedance: S11

E5071C Network Analyzer

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





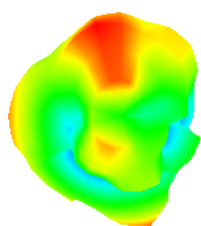
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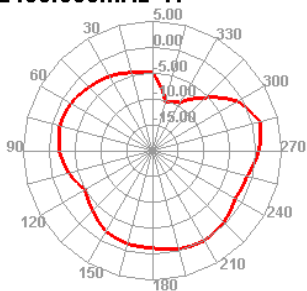
Efficiency & Gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	53.82	2.03
2410	57.15	2.03
2420	58.26	1.93
2430	59.43	2.11
2440	59.89	1.91
2450	61.71	1.87
2460	66	2.08
2470	67.78	2.3
2480	65.89	2.28
2490	65.54	2.34
2500	68.13	2.7

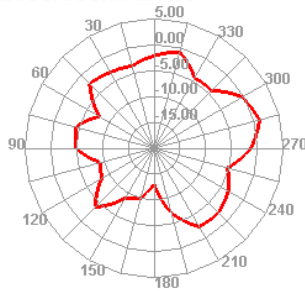
2400.000MHz



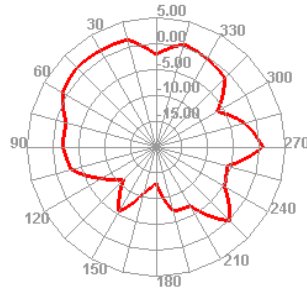
2400.000MHz H



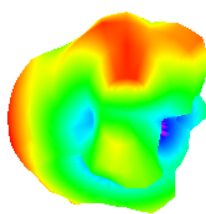
2400.000MHz E1



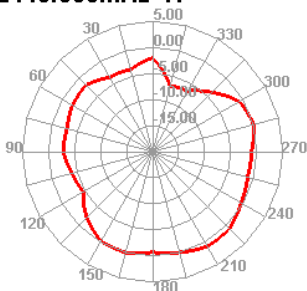
2400.000MHz E2



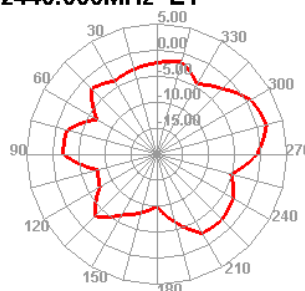
2440.000MHz



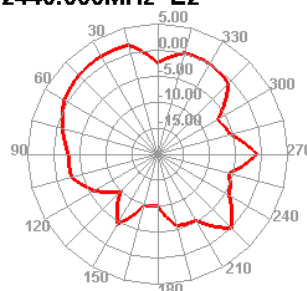
2440.000MHz H



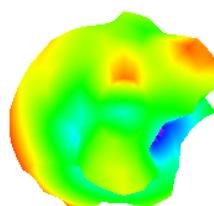
2440.000MHz E1



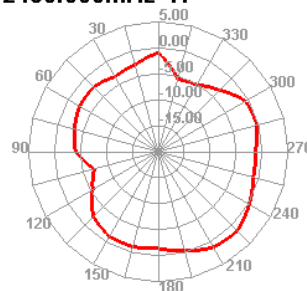
2440.000MHz E2



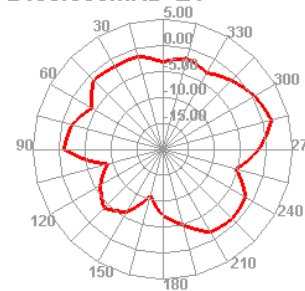
2480.000MHz



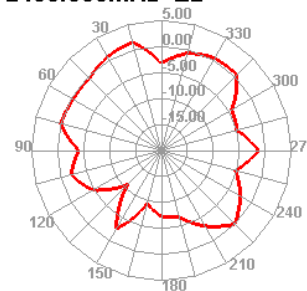
2480.000MHz H



2480.000MHz E1



2480.000MHz E2



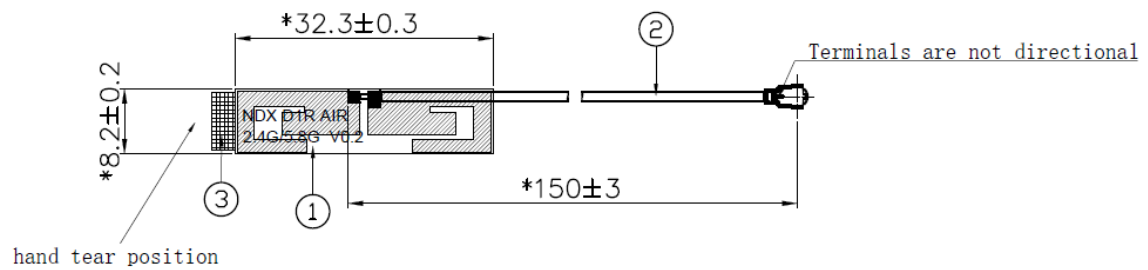


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Antenna material composition table and antenna assembly picture:

List of antenna materials	
material name	Materials Main raw materials
PCB	FR4
Cable	FEP
Terminal	Gold-plated copper
Tin wire	Sn





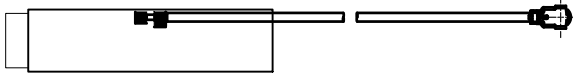
Date: 2026-01-22

page: 1 of 1

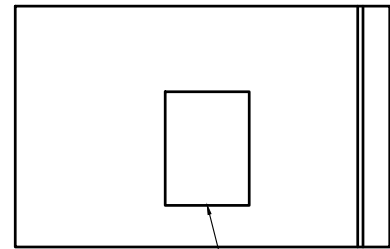
Name : L470R Antenna

Version: A

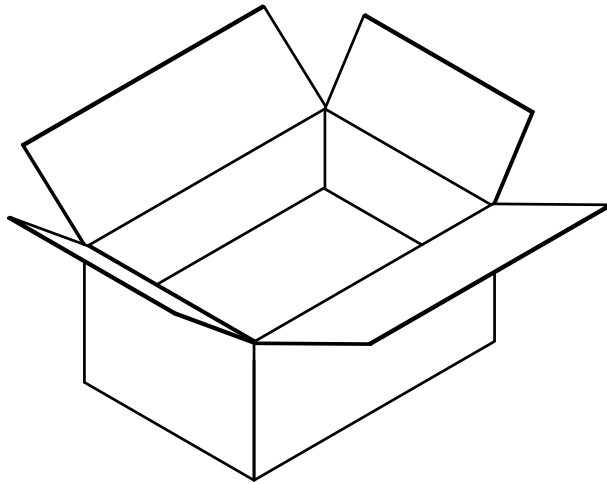
1. The Product



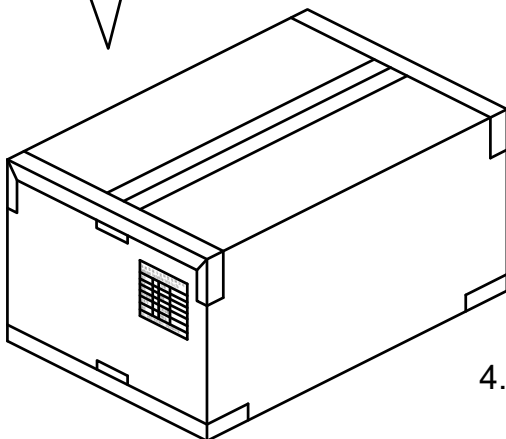
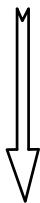
2. 200PCS/per Bag



label



3. Packing (subject to actual packing) .



4. Seal the box and label the carton .

DESIGNED By: ZC

APPROVED By: LSL