

SHENZHEN MTCCO., LTD



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SHENZHEN MTCCO., LTD

APPROVAL SHEET

MANUFACTORY: SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

DESCRIPTION: WIFI Antenna SPECIFICATION: 1.13 Black, total length, L=185mm

PARTNO.: 3. N101. 2290 MODEL NO.: L470R

PARTNO.: 304ANT00769 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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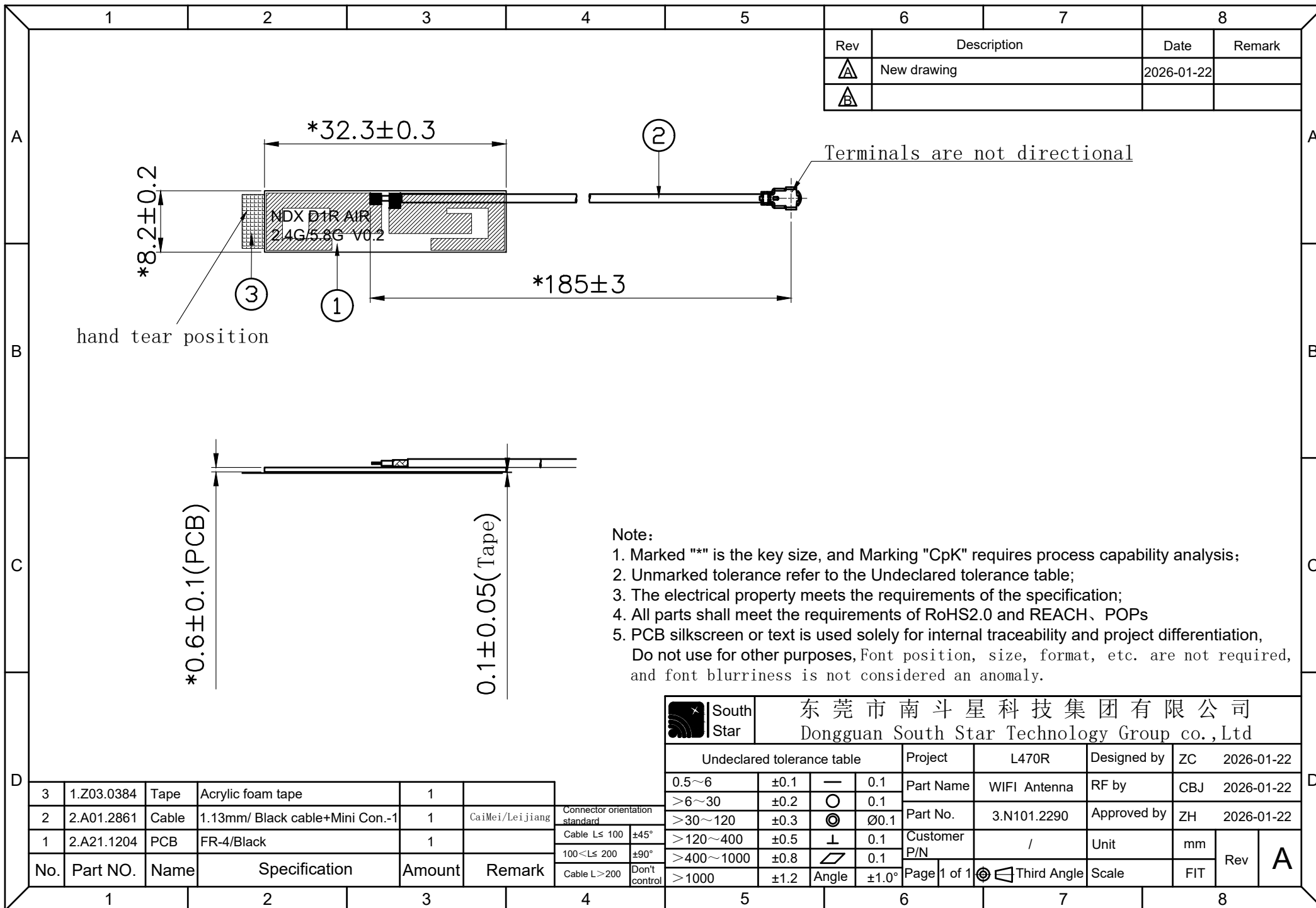
Index

一、Cover	1
二、Colophon	2
三、Index	3
四、The basic parameters	4
五、Product Drawing	5
六、Test Equipment & Conditions	6
七、Test Report	7-8
八、Antenna material composition table and antenna assembly picture	9
九、Packing method	10



The basic parameters:

A. Electrical Characteristics	
Frequency	2400-2485MHz 5150-5850MHz
VSWR	≤2
Efficiency	>50%
Impedance	50 Ohm
Polarization	Linear
Gain	2. 03dBi@2400MHz 4. 05dBi@5150MHz 1. 91dBi@2440MHz 4. 09dBi@5500MHz
Note:	2. 28dBi@2480MHz 5. 5dBi@5850MHz
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Cable Type	Ø1. 13mm Black
Cable length	185mm
Connector Type	Mini Con. -1
Antenna Dimensions	32. 3mm* 8. 2mm* 0. 6mm
weight	
C. Environmental	
Operation Temperature	-40℃ ~ +70℃
Storage Temperature	-40℃ ~ +70℃





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Test Equipment & Conditions

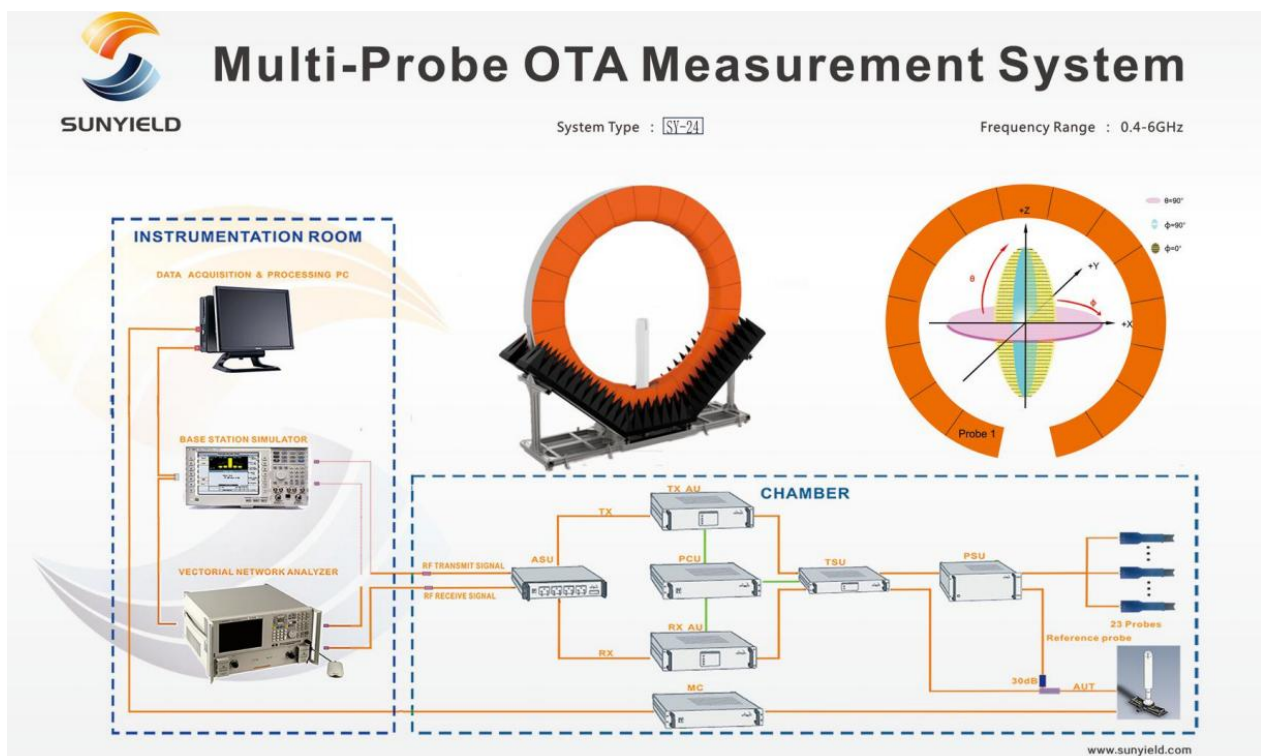
1. NetWork Analyzers:

Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:





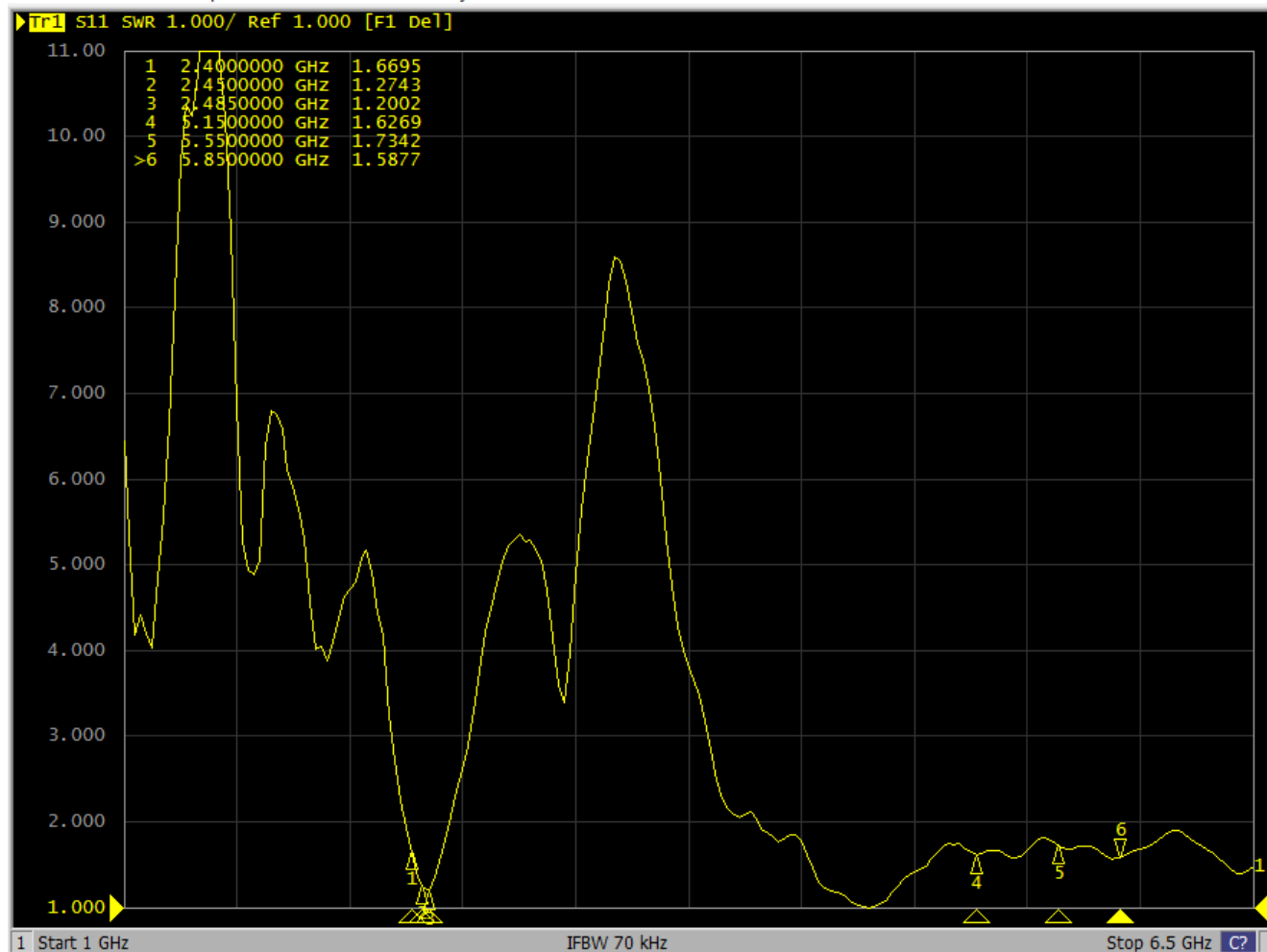
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Antenna Impedance: S11

E5071C Network Analyzer

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





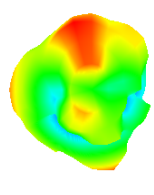
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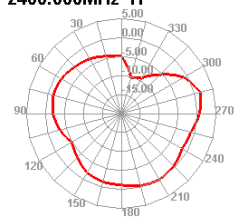
Efficiency & Gain:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	53.82	2.03	5150	69.48	4.05
2410	57.15	2.03	5200	63.72	3.65
2420	58.26	1.93	5250	64.16	3.47
2430	59.43	2.11	5300	67.62	3.53
2440	59.89	1.91	5350	67.27	3.72
2450	61.71	1.87	5400	64.83	3.69
2460	66	2.08	5450	61.47	3.62
2470	67.78	2.3	5500	61.14	4.09
2480	65.89	2.28	5550	62.51	4.7
2490	65.54	2.34	5600	63.95	5.05
2500	68.13	2.7	5650	62.54	5
			5700	61.35	4.92
			5750	61.99	4.92
			5800	63.17	5.12
			5850	66.69	5.5

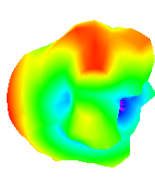
2400.000MHz



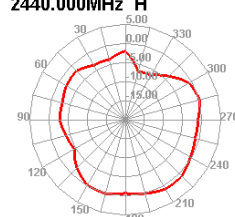
2400.000MHz H



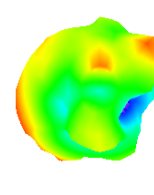
2440.000MHz



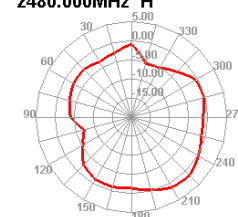
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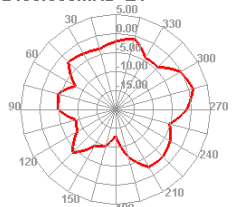
2480.000MHz



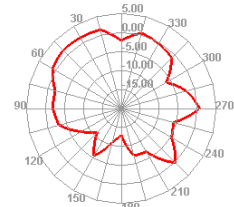
2480.000MHz H



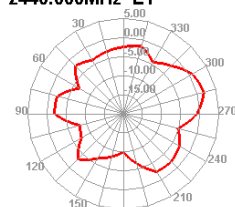
2400.000MHz E1



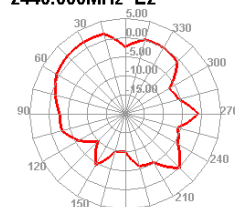
2400.000MHz E2



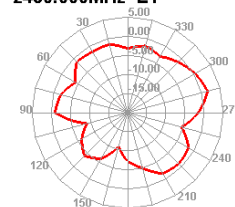
2440.000MHz E1



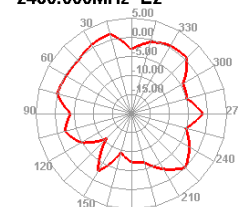
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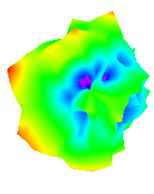
2480.000MHz E1



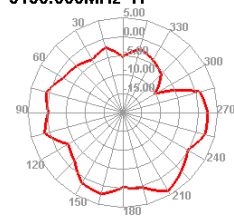
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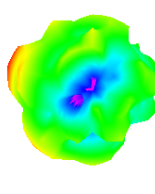
5150.000MHz



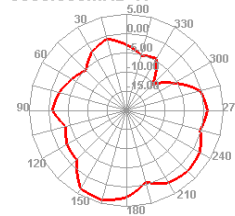
5150.000MHz H



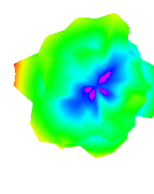
5500.000MHz



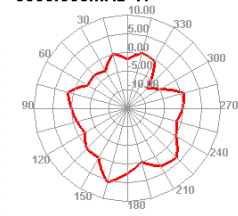
5500.000MHz H



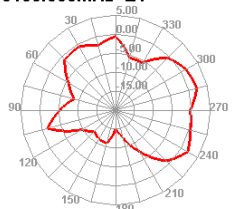
5850.000MHz



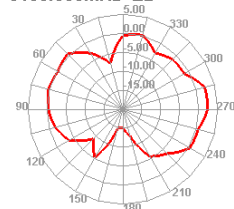
5850.000MHz H



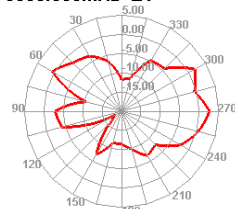
5150.000MHz E1



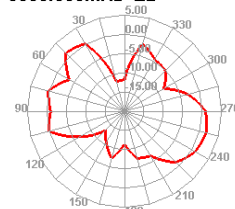
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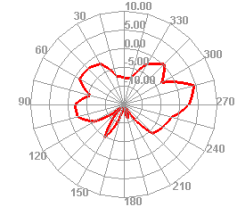
5500.000MHz E1



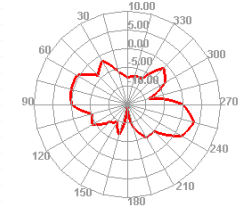
5500.000MHz E2



5850.000MHz E1



5850.000MHz E2



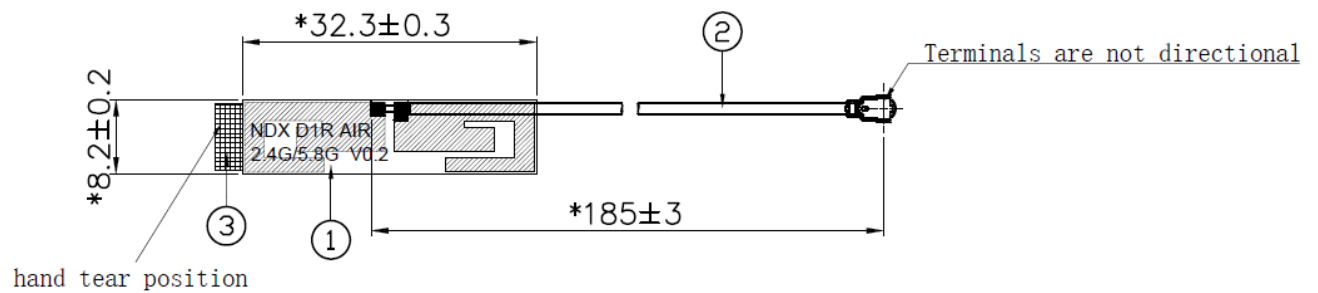


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Antenna material composition table and antenna assembly picture:

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



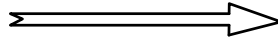


Date: 2026-01-22

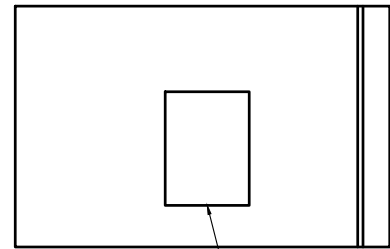
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Name : L470R Antenna	Version: A

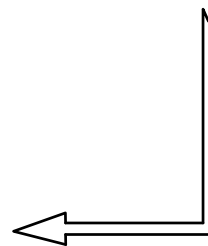
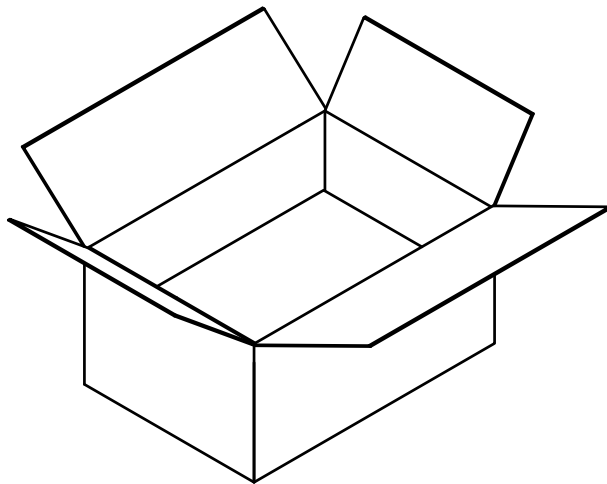
1. The Product



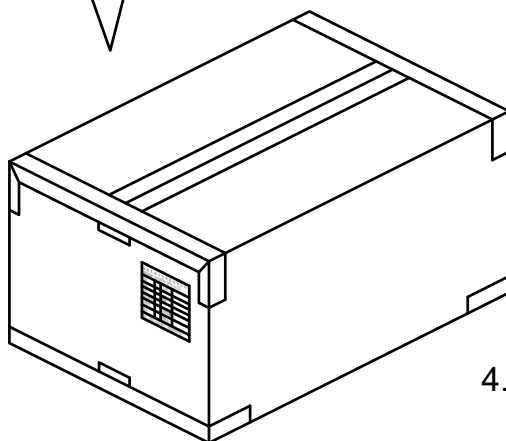
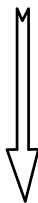
2. 200PCS/per Bag



label



3. Packing (subject to actual packing) .



4. Seal the box and label the carton .

DESIGNED By: ZC

APPROVED By: LSL