

APPROVAL SHEET

Customer Name SHENZHEN XIAOMI LLET COMMUNICATION Co.,LTD

Product Model NR01

Customer P/N 1710805000238A

Specifications PCB antenna, 5G, 5dBi, 1.37 black RFcable L=68mm

Southstar P/N 3. N101. 1510

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	

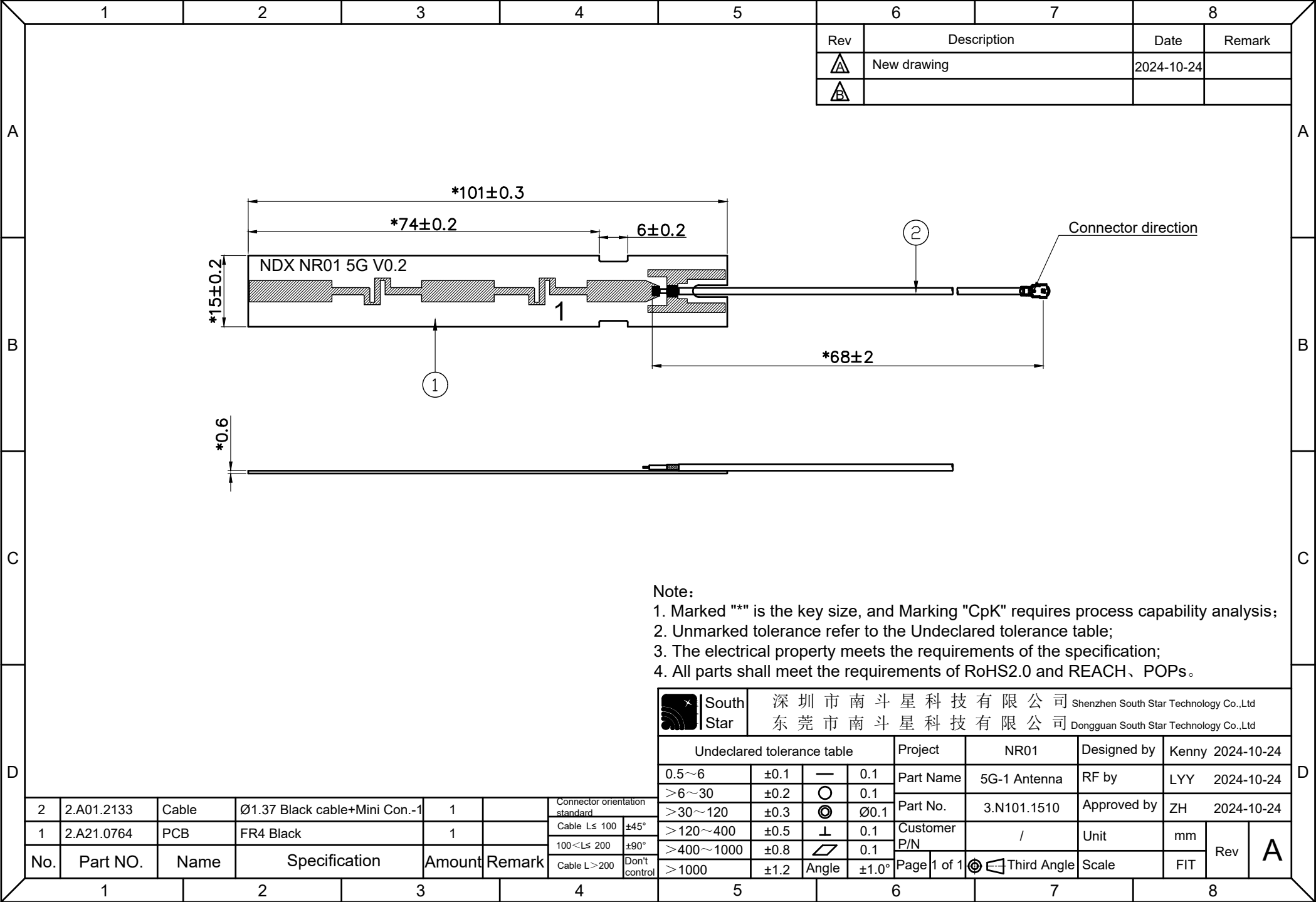
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The basic parameters:

A. Electrical Characteristics	
Frequency	5150MHz ~ 5850MHz
VSWR	<2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Peak Gain	6.58dBi@5500MHz
Note 备注:	
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Cable Type	Ø1.37mm black
Connector Type	IPEX
C. Environmental	
Operation Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C



Test Equipment & Conditions:

1. NetWork Analyzers:

Keysight E5071C

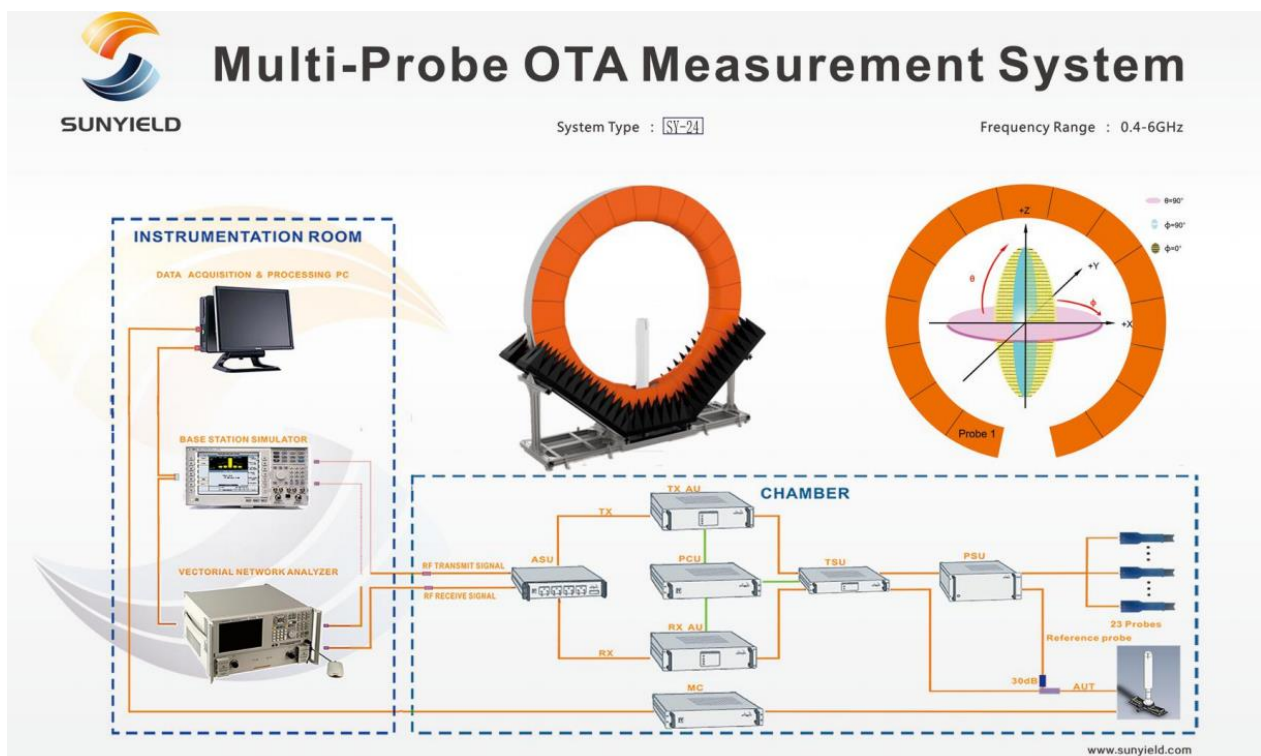
2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System

4. Calibration time

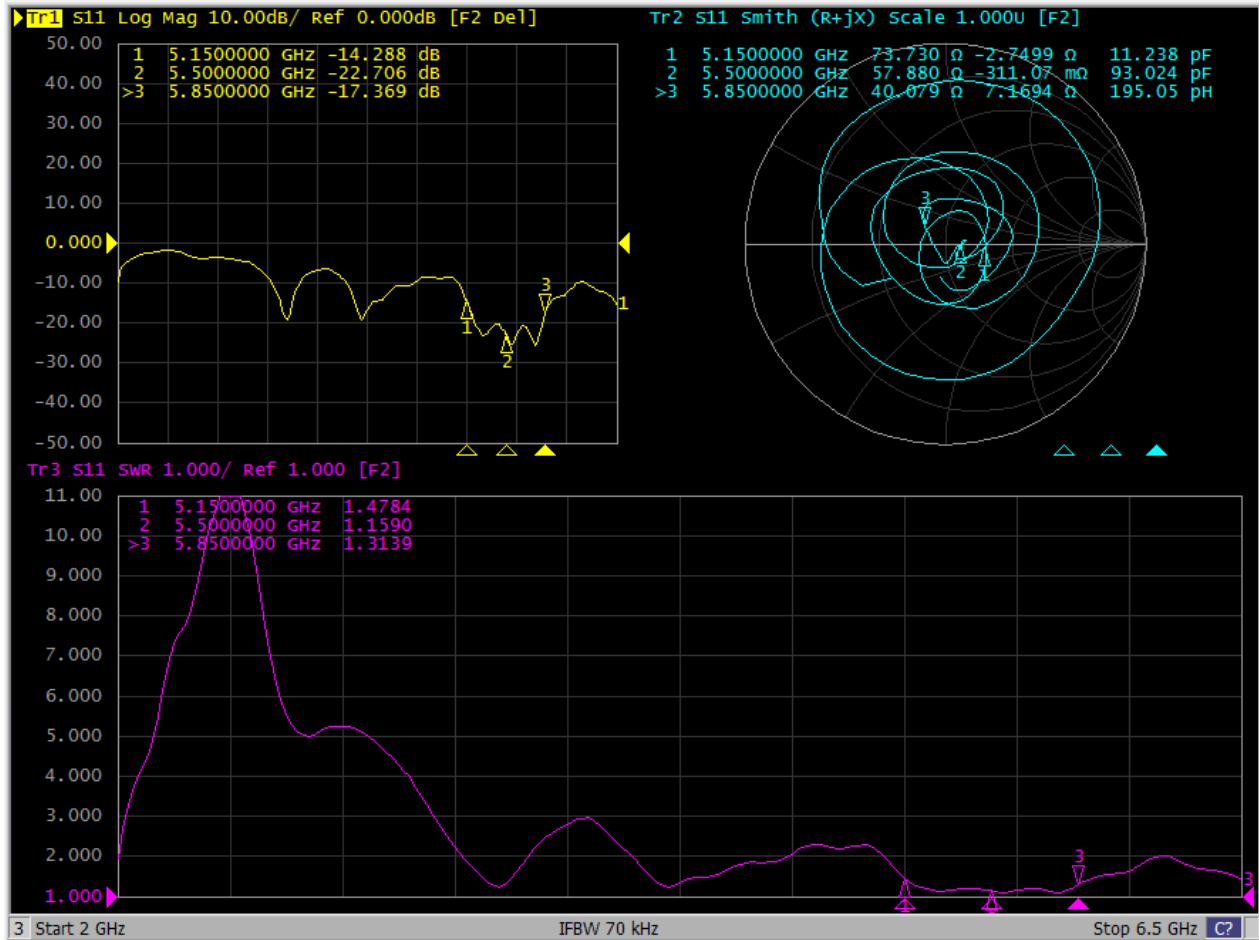
2024. 03. 26~2025. 03. 25



Antenna Impedance: S11

E5071C Network Analyzer

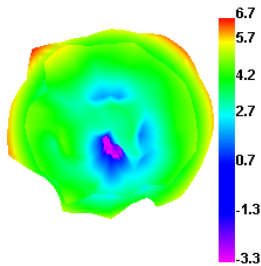
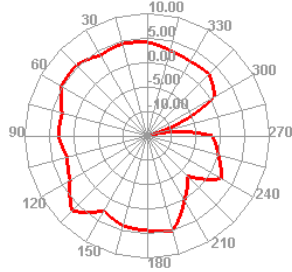
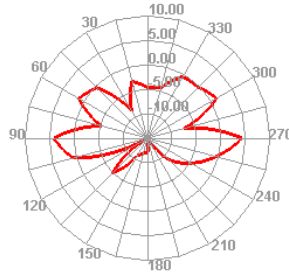
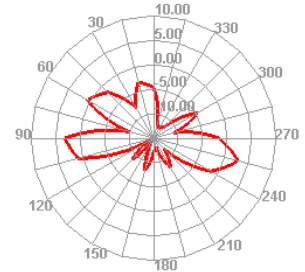
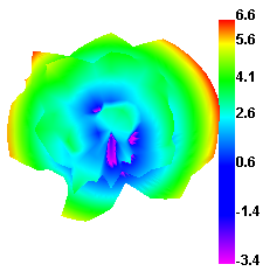
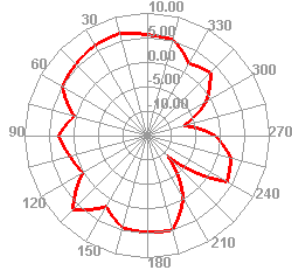
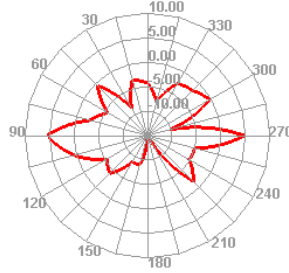
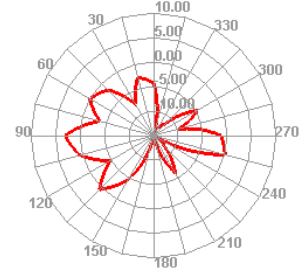
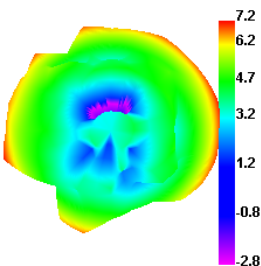
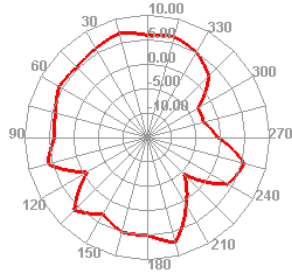
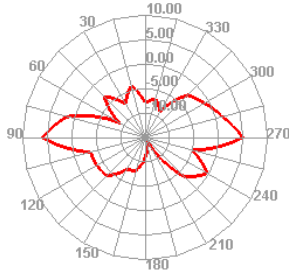
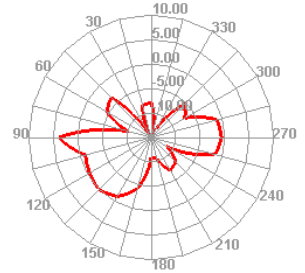
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



Efficiency & Gain:

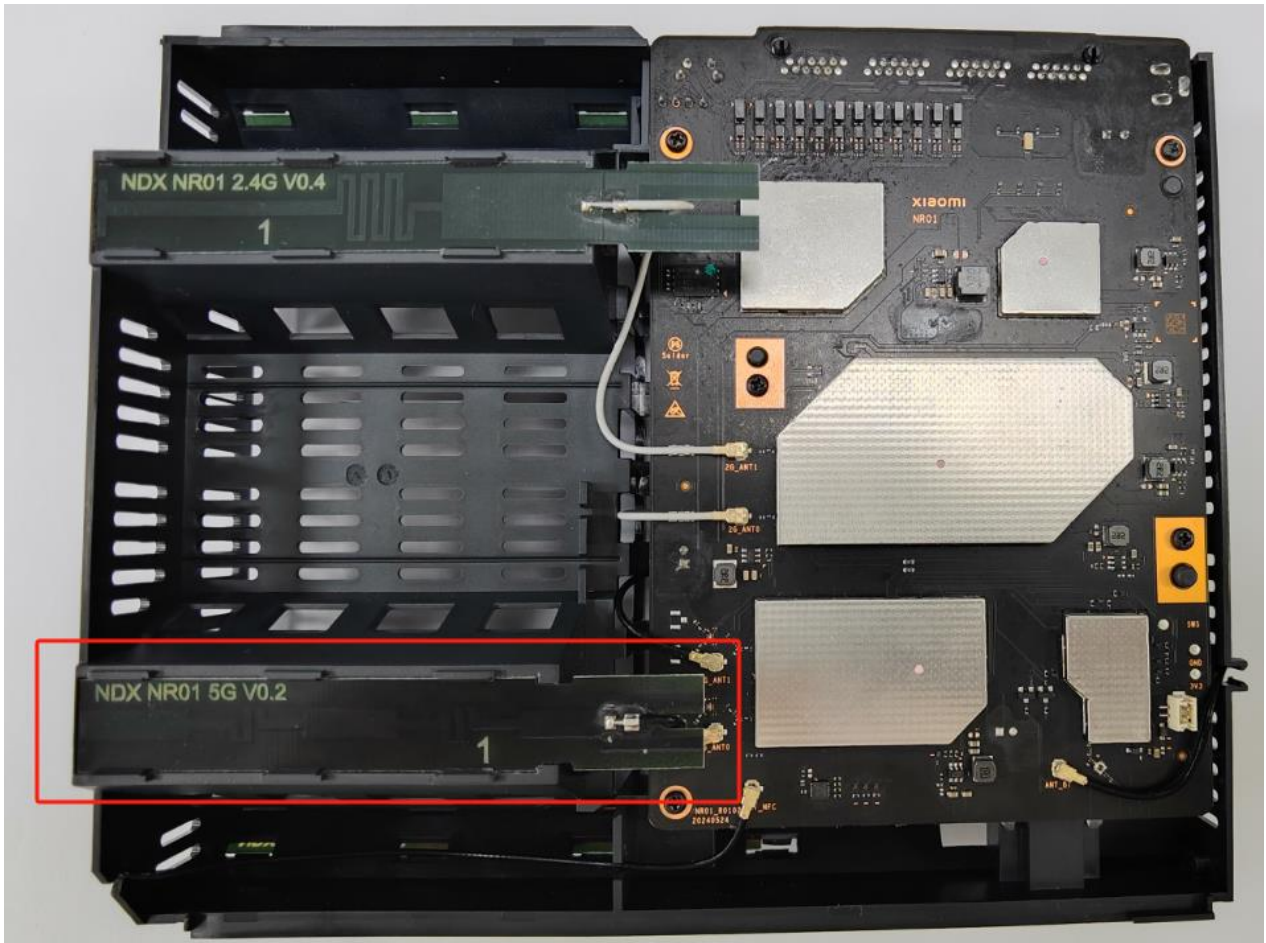
Freq (MHz)	Effi (%)	Gain (dBi)
5150	73.76	6.67
5200	73.41	6.99
5250	75.03	7.26
5300	74.25	6.84
5350	75.48	6.29
5400	73.77	6.33
5450	73.32	6.45
5500	73.49	6.58
5550	73.35	6.57
5600	76.34	6.96
5650	77.35	6.88
5700	75.77	6.54
5750	76.98	6.56
5800	75.99	6.99
5850	75.25	7.18

Antenna 3D & 2D pattern:

5150.000MHz

5150.000MHz H

5150.000MHz E1

5150.000MHz E2

5500.000MHz

5500.000MHz H

5500.000MHz E1

5500.000MHz E2

5850.000MHz

5850.000MHz H

5850.000MHz E1

5850.000MHz E2




Antenna assembly picture:



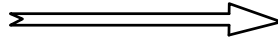


Date: 2024-10-24

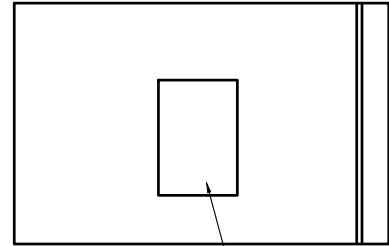
page: 1 of 1

Name : NR01 Antenna	Version: A
	Customer:

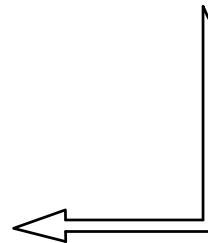
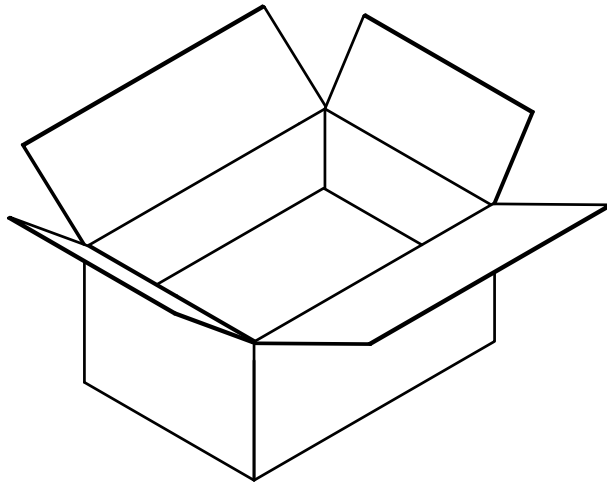
1. The Product



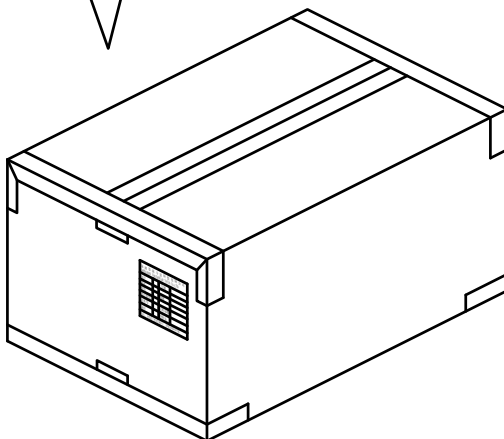
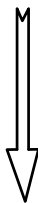
2. 100PCS/per Bag



Label



3. Packing (subject to actual packing) .



DESIGNED By: Kenny

APPROVED By: ZH