

Product specifications

产品料号 **Partner P/N:** C168-JL-8222

产品型号 **Product model:** NDM-WIFI 5G

制作日期 **Production date:** 2024.10.14

文档版本 **Document version:** V1.1

1. Antenna performance

ANT1

技术参数	
频率范围 Frequency range	5150~5850MHz
驻波比 (≤ 2.0) VSWR	$\leq 2.0@5150\sim 5850\text{MHz}$
隔离度 ($\geq 20\text{dB}$) Isolation	$\geq 20\text{dB}$
增益 Gain (dBi)	13@5150~5850MHz
波束宽度	水平角度: 30° 垂直角度: 30°
效率 Efficiency	60%@5150~5850MHz
前后比 Front-to-rear ratio	14
天线极化 Antenna polarization	Vertical
线缆类型 Cable type	1.13
接头类型 Connector type	RF 一代端子 113
阻抗 Impedance	50 Ohm
天线类型 Antenna type	微带
天线尺寸 Antenna size	137.55*92*27mm
工作温度 Operating temperature	-40~70
防护等级 Level of protection	/
包装方式 Packaging method	箱装

ANT2

技术参数	
频率范围 Frequency range	5150~5850MHz
驻波比 (≤ 2.0) VSWR	$\leq 2.0@5150\sim 5850\text{MHz}$
隔离度 ($\geq 20\text{dB}$) Isolation	$\geq 20\text{dB}$
增益 Gain (dBi)	13@5150~5850MHz
波束宽度	水平角度: 30° 垂直角度: 30°
效率 Efficiency	60%@5150~5850MHz
前后比 Front-to-rear ratio	14
天线极化 Antenna polarization	Horiznotal
线缆类型 Cable type	1.13
接头类型 Connector type	RF 一代端子 113
阻抗 Impedance	50 Ohm
天线类型 Antenna type	微带
天线尺寸 Antenna size	137.55*92*27mm
工作温度 Operating temperature	-40~70
防护等级 Level of protection	/
包装方式 Packaging method	箱装

2. Test the equipment

1. 网络分析仪（Network Analyzers）：Agilent E5071C
2. 综合测试仪（Communications Test Set）：CMW 500
3. OTA 测试系统（OTA Test System）：7*4*3 暗室 darkroom

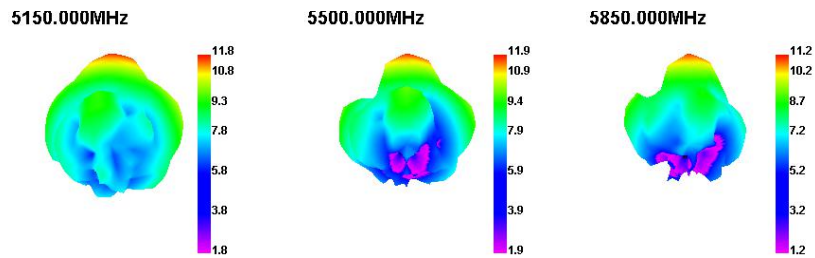


网络分析仪(Network Analyzer)

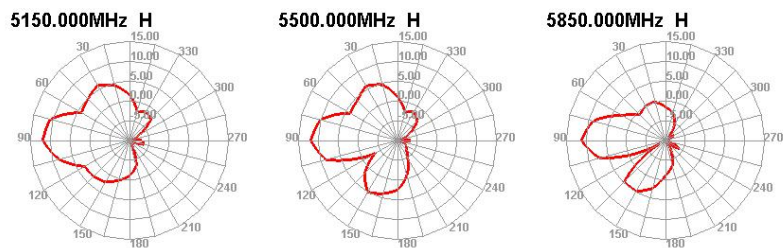


3. Antenna radiation field

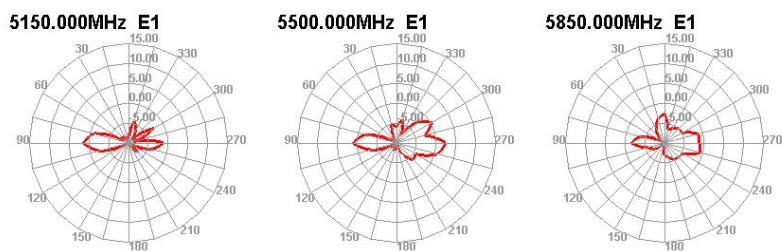
ANT1:



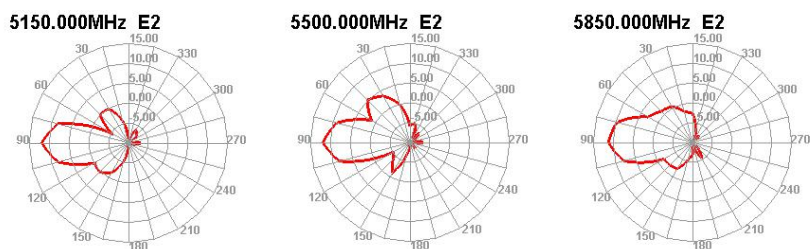
3D gain diagram



Horizontal angle 2D directional diagram



Vertical angle 2D directional diagram

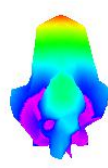


ANT2:

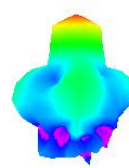
5150.000MHz



5500.000MHz

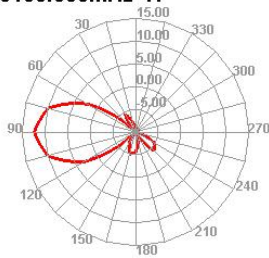


5850.000MHz

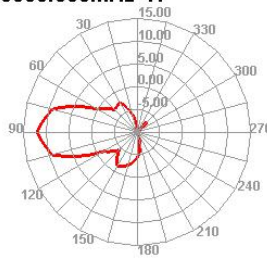


3D gain diagram

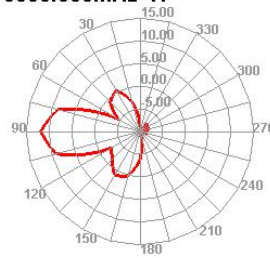
5150.000MHz H



5500.000MHz H

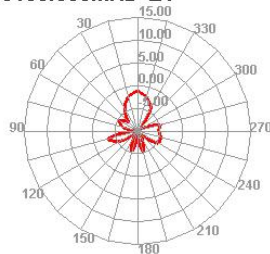


5850.000MHz H

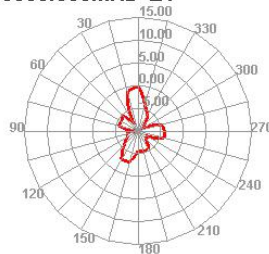


Horizontal angle 2D directional diagram

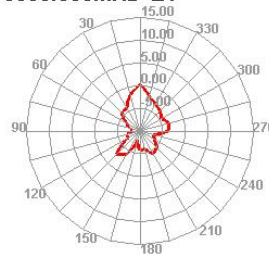
5150.000MHz E1



5500.000MHz E1

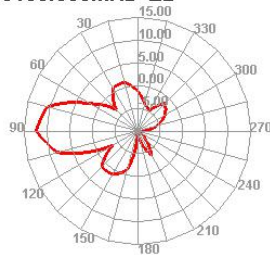


5850.000MHz E1

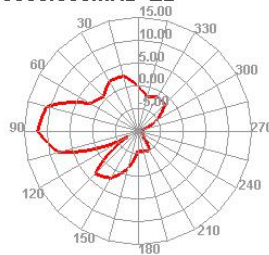


Vertical angle 2D directional diagram

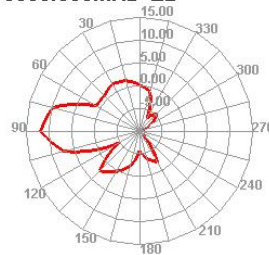
5150.000MHz E2



5500.000MHz E2



5850.000MHz E2



4. Gain and Efficiency Table

ANT1	Efficiency	Gain
5150	70.58	11.81
5250	66.06	11.44
5350	71.02	11.83
5450	77.97	12.23
5500	81.72	12.42
5650	73.04	11.81
5750	68.84	11.39
5850	68.13	11.21

ANT2	Efficiency	Gain
5150	68.9	12.27
5250	65.82	12.35
5350	66.16	12.46
5450	68.54	12.68
5500	67.37	12.65
5650	68.44	12.66
5750	67.9	12.43
5850	71.39	12.58

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