

Product Number:NB2400-112FPC

Product Name:2.4-5Gwifi 内置全向天线

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1. Specification



A. Electrical Characteristics	
Frequency 天线频率	2400-2500MHZ 5100-5800MHZ
s.W.R.驻波比	< 1.5@2400MHZ3.0@5100
Antenna Gain 天线增益	2dBi Peak Gain
Polarization 极化方式	Linear 线性极化
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator 材质	FR-4
Cable Type 线材类型	RG-1.13
Connector Type 天线接口	50 ohm / I-PEX MHF20278-111R-13
Cable length 天线长度	从焊点算起 22CM
C.Environmental	
Operation Temperature	- 40° c~+65° c
Storage Temperature	-40° C~+80 c
Antenna Color Storage life	<2 year

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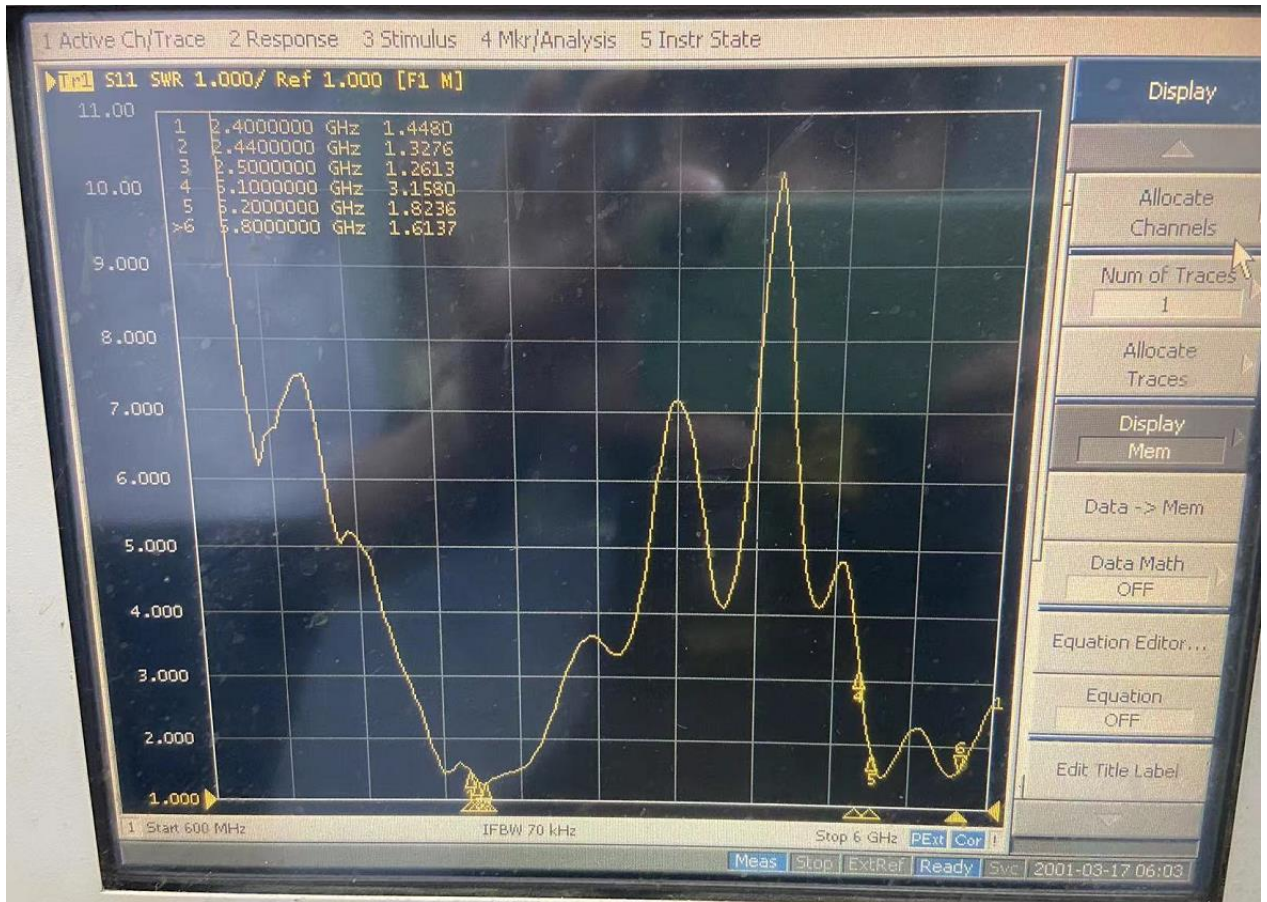
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Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual	Directive DUT specification

M1	Vibration	GB /T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB /T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28-82 Solder iron: 260+5° C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DuT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package,surface process	Directive DUT specification
E1	Salt Spray	GB/T 2423. 17-93 Temp: 35° C; RH: >=95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB/T 2423 . 4 - 93 Temp: 80° C /12 H;-40° C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GBIT 2423 . 22 - 87 1 Cycle: - 40° c (30 minutes) to + 80° c(30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2-89 Temp: 80° C;Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/Ms	Directive RoHS 2006/122/EC

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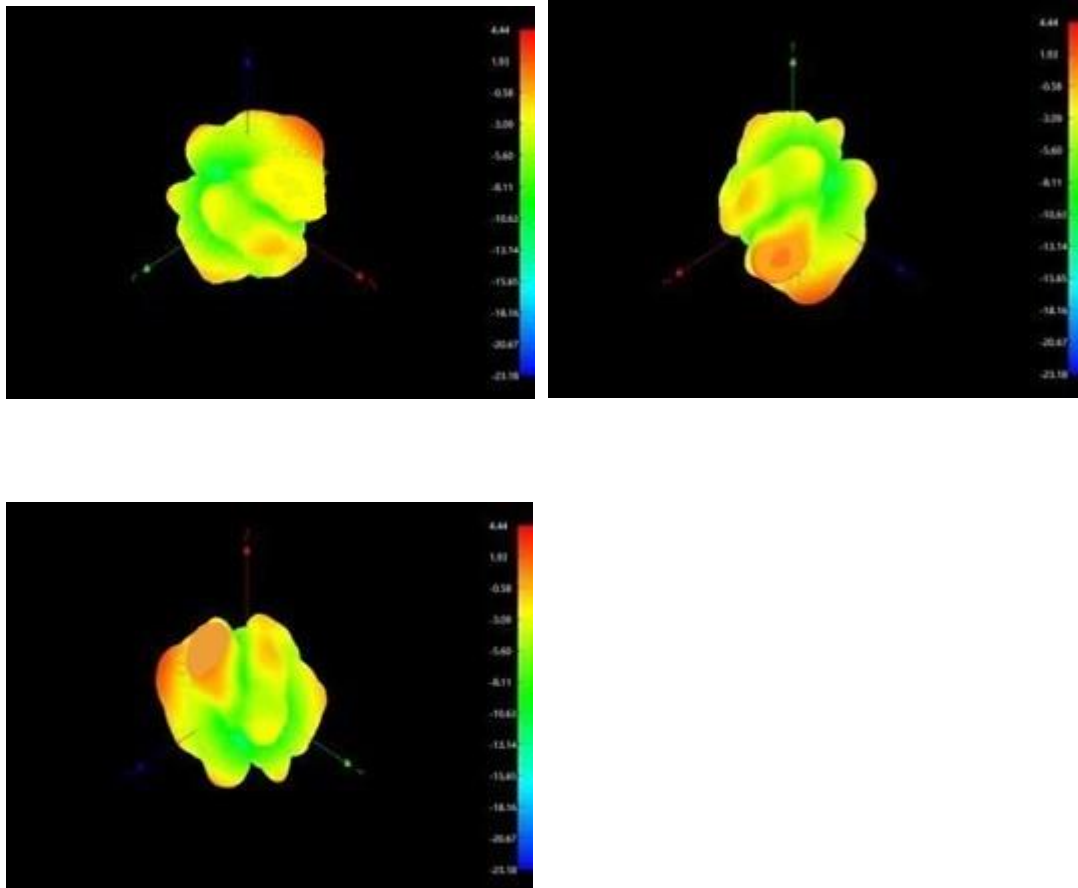
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Field intensity diagram

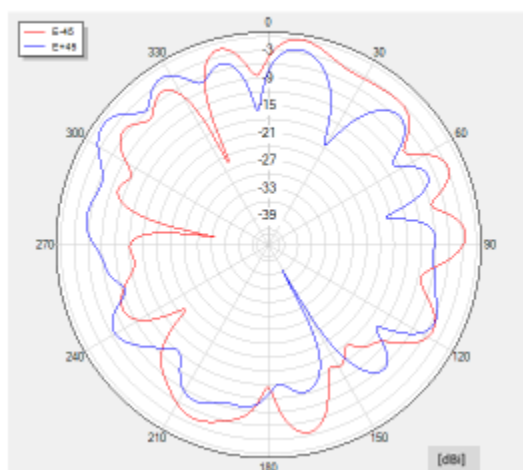


Frequency: 2400MHz

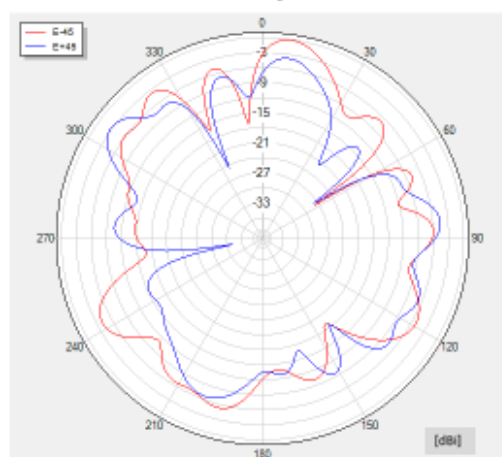
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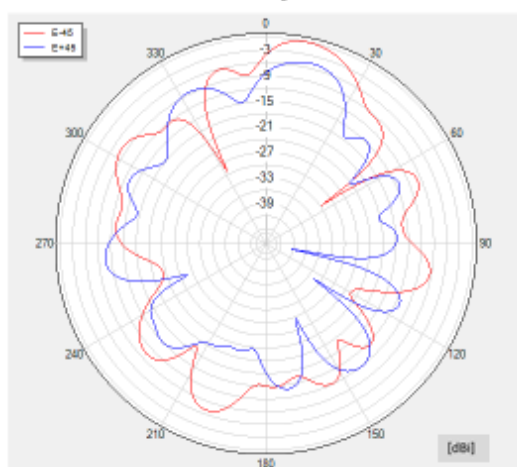
H Phi=90 freq=5200MHz



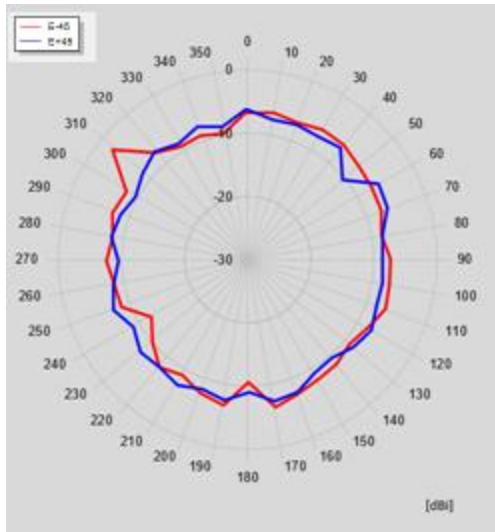
H Phi=90 freq=5425MHz



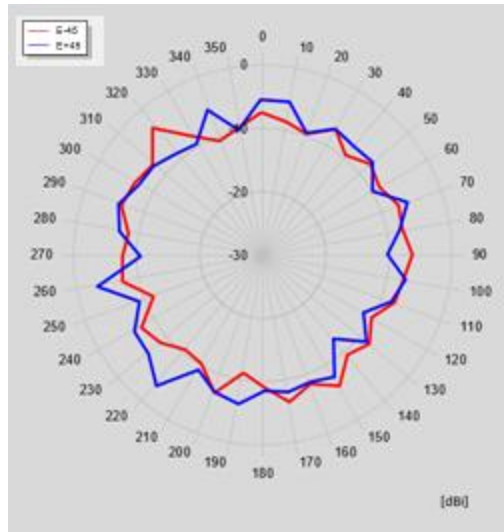
H Phi=90 freq=5800MHz



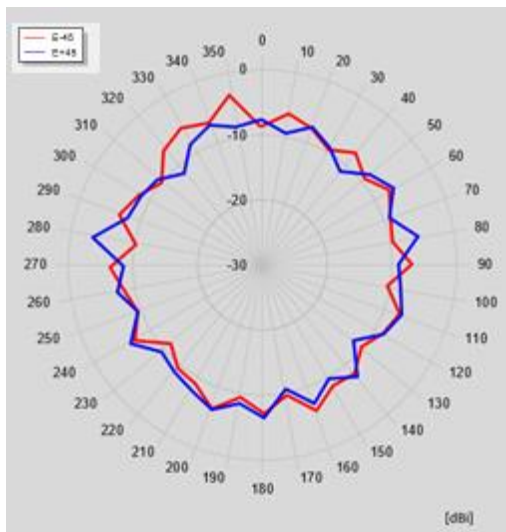
E Phi=90 freq=5200MHz



E Phi=90 freq=5425MHz



E Phi=90 freq=5800MHz



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Frequency(MHz)	Realized Efficiency	Peak Realized Gain(dBi)
2400	13%	-1.8
2410	14%	-1.3
2420	15%	2
2430	16%	-1.6
2440	16%	-1.4
2450	15%	-1.2
2460	14%	1
2470	13%	-0.8
2480	12%	-1.1
2490	12%	-1.1
2500	11%	-1.6

Frequency(MHz)	Realized Efficiency	Peak Realized Gain(dBi)
5100	13%	-1.8
5150	14%	-1.3
5200	15%	-1.8
5250	16%	-1.6
5300	16%	2
5350	15%	-1.2
5400	14%	1
5450	13%	-0.8
5500	12%	-1.1
5550	12%	-1.1
5600	11%	-1.6
5650	12%	-1.1
5700	11%	-1.1
5750	13%	-1.6
5800	15%	-1.1