

NANP32X13AUW2R445G3X100AVF

Triband WiFi PCB Antenna



Features

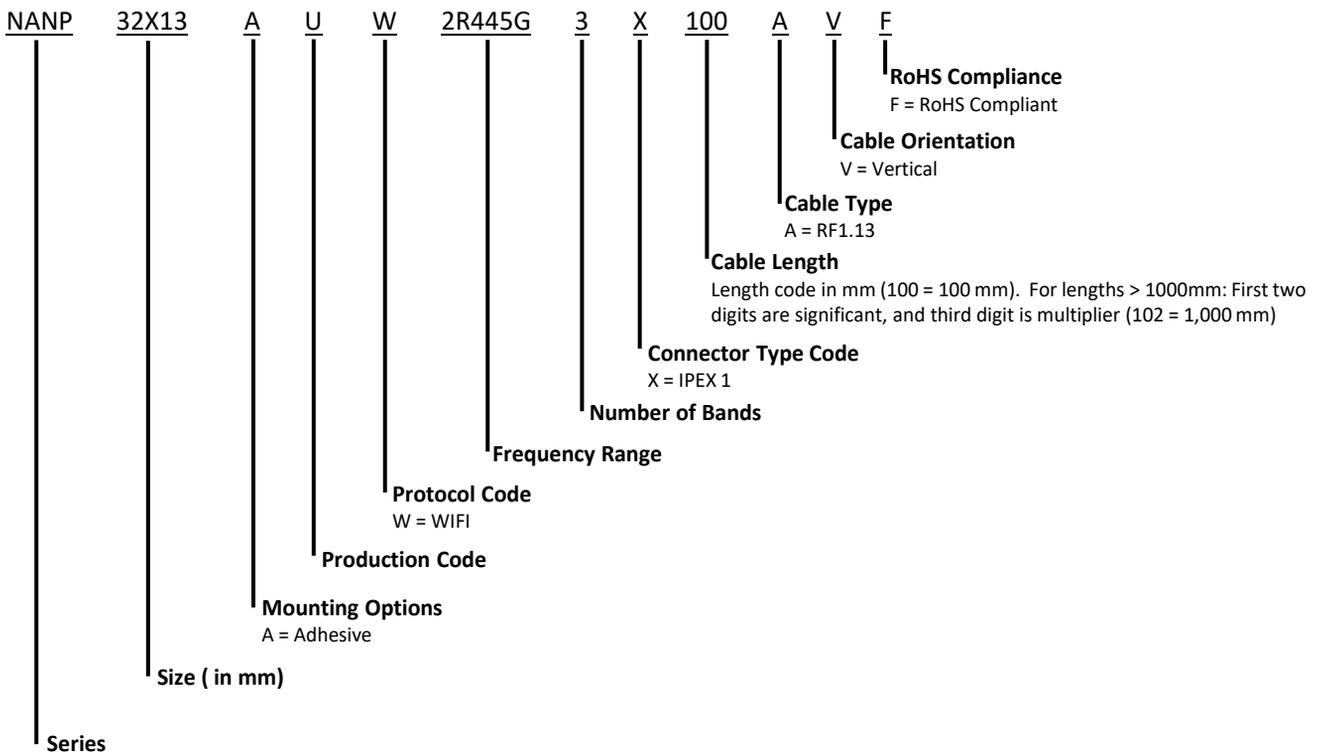
- Support WIFI Bands 2400~2485MHz, 5150~5850MHz, 5925~7125MHz
- Stable and Reliable Performance
- Compact Size
- RoHS 2.0 & REACH Compliant



Applications

- IEEE802.11(a/b/g/n/ac)
- Hand-held devices when IEEE802.11(a/b/g/n/ac) functions are needed
- Wi-Fi 6 & 6E network communication products

Part Number Breakdown



Standard Part Number Breakdowns

Part Numbers	Connector Type	Cable Length	Cable Type	Cable Orientation
NANP32X13AUW2R445G3X100AVF	IPEX (X)	100 mm	RF1.13 (A)	Vertical

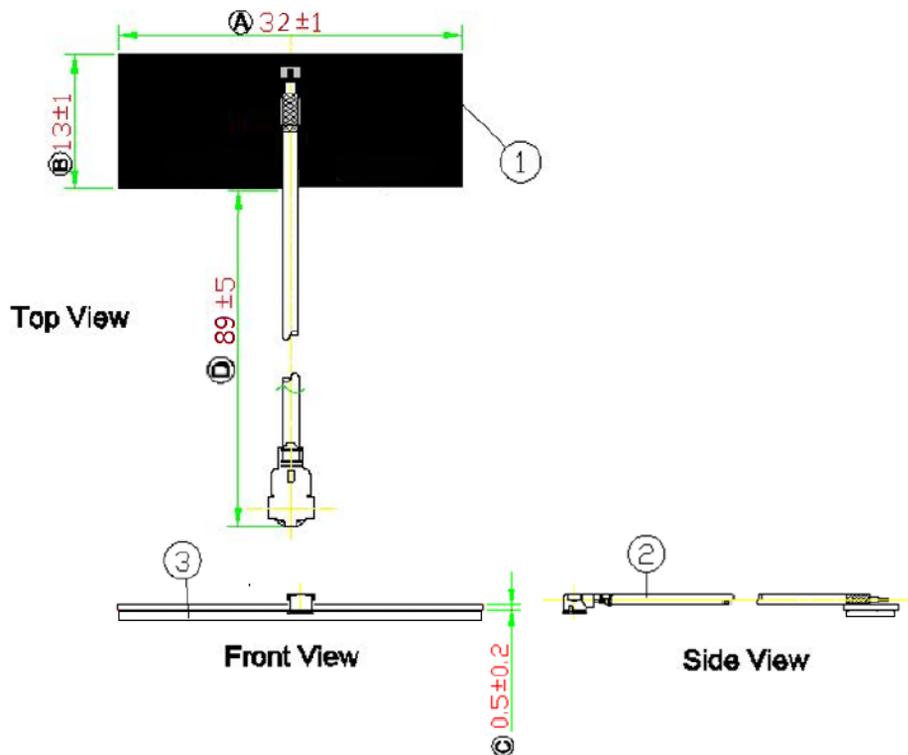
The table represents assembled part numbers available on www.niccomp.com from standard connector and cable options. For options not listed above please contact NIC”



Specifications

Electrical			
Frequency Range	2400~2485MHz	5150 ~5850 MHz	5925~7125 MHz
Efficiency (typ.)	79%	69%	63%
Average Gain (typ.)	-1.0 dB	-1.6 dB	-2.0 dB
Peak Gain (typ.)	2.7 dBi	3.6 dBi	4.9 dBi
V.S.W.R	< 2 typ.		
Polarization	Linear		
Impedance	50Ω		
Environmental			
Operating Temperature	-40°C~+85°C		
Storage Temperature	-5°C~+40°C		
Relative Humidity	10 ~ 70 %		
UL94 Rating	V-0		

Dimension Drawing



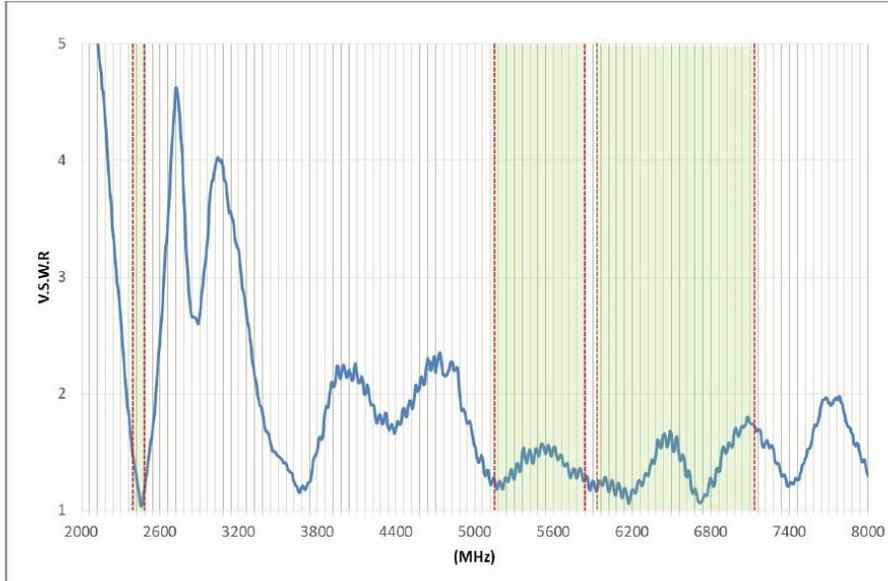
Dimensions (mm) & Mechanical

Body Length	32 ± 1.0
Width	13 ± 1.0
Height	0.5 ± 0.2
Cable Type (2)	RF1.13
Cable Length	100mm
Connector Type	IPEX
Material (1)	FR4
Mounting Method (3)	Adhesive

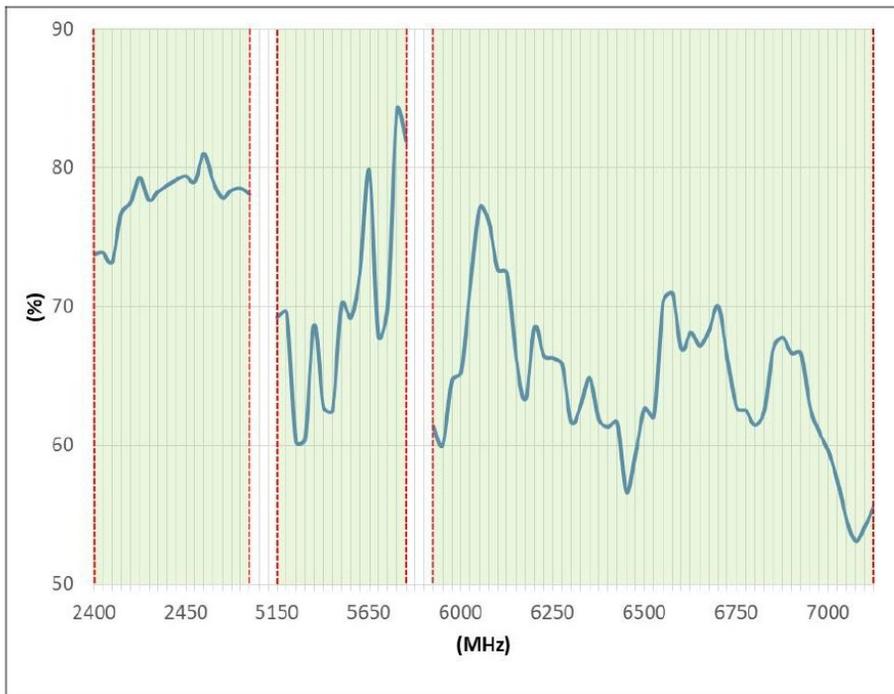


Antenna Parameters:

VSWR

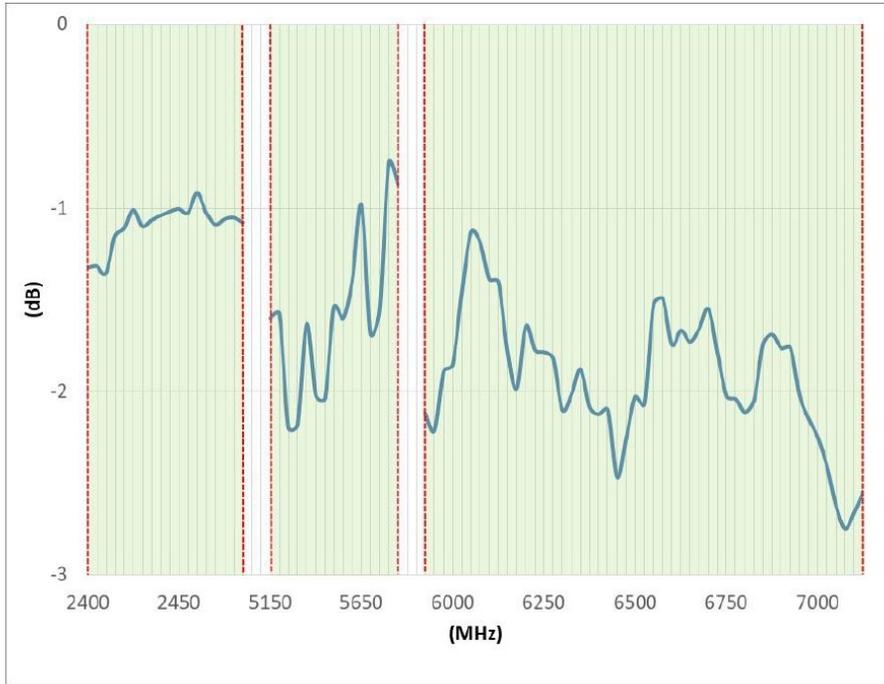


Efficiency (%)

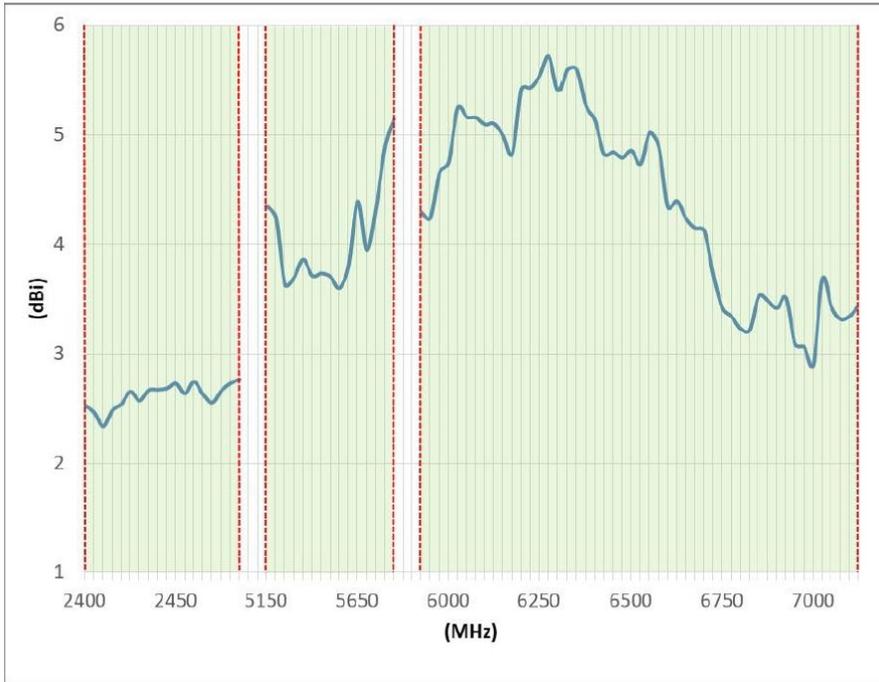




Average Gain (dB)

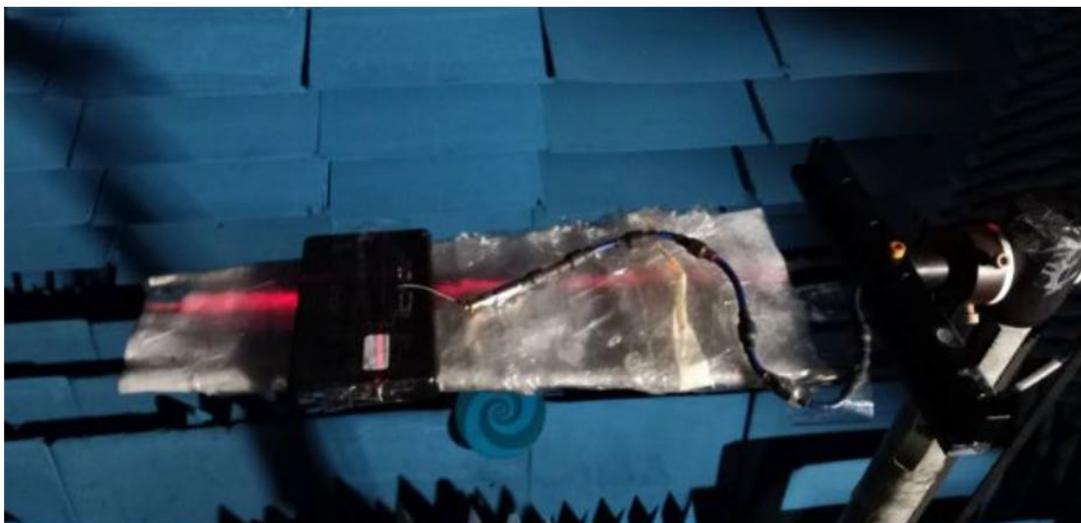


Peak Gain (dBi)

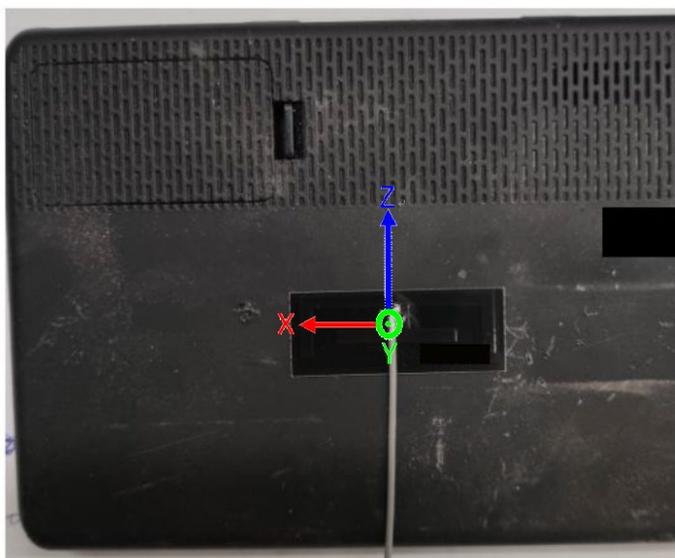


Radiation Patterns

The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below:



3D Radiation Patterns

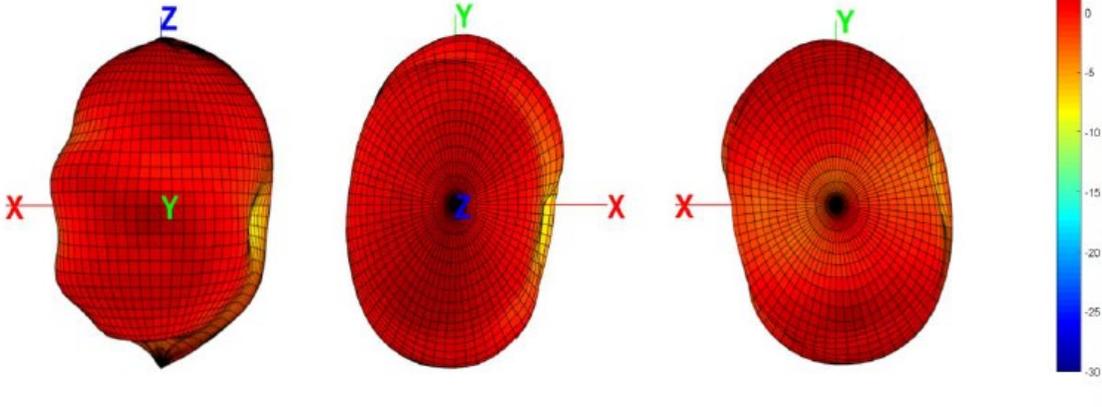


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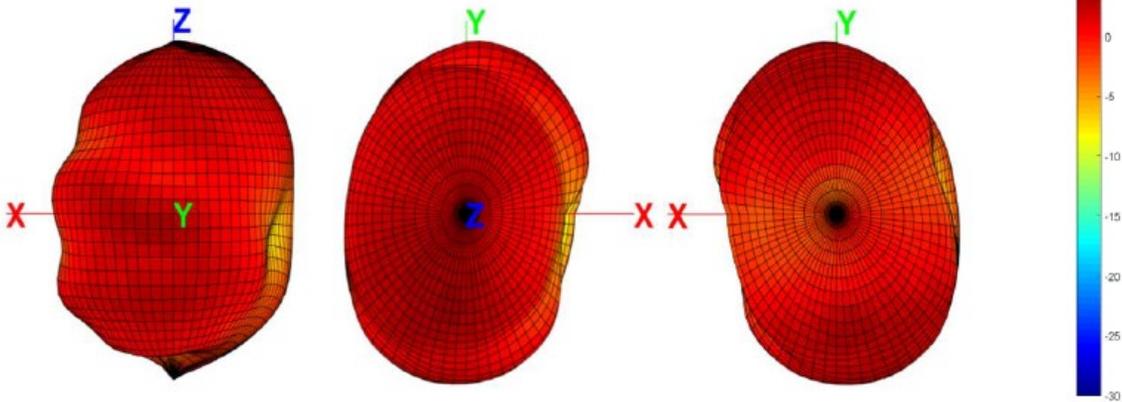
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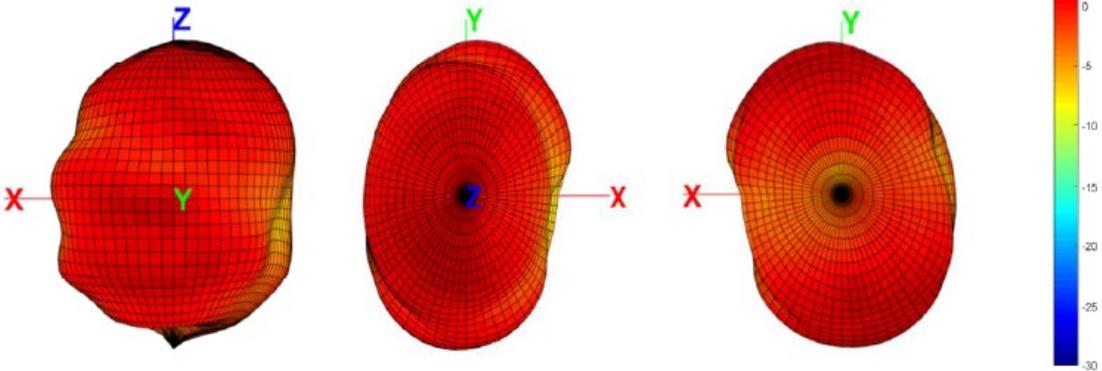
2400 MHz (unit: dBi)



2445 MHz (unit: dBi)



2485 MHz (unit: dBi)

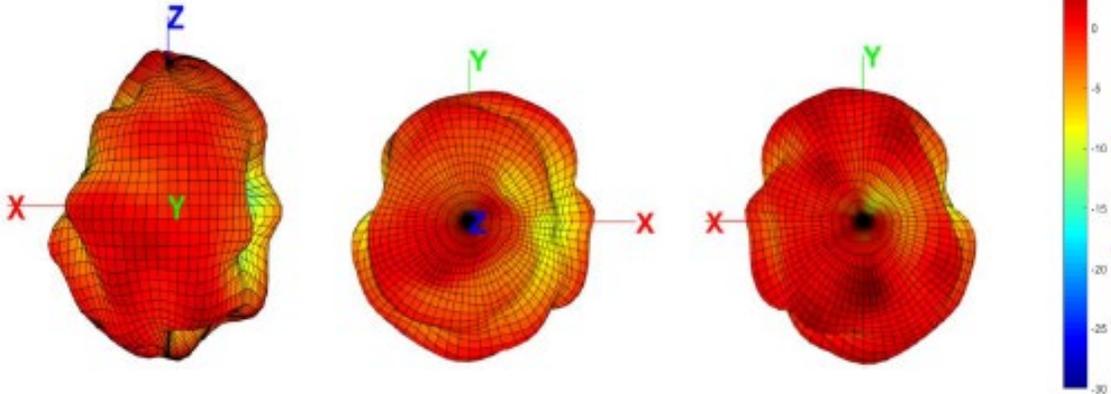


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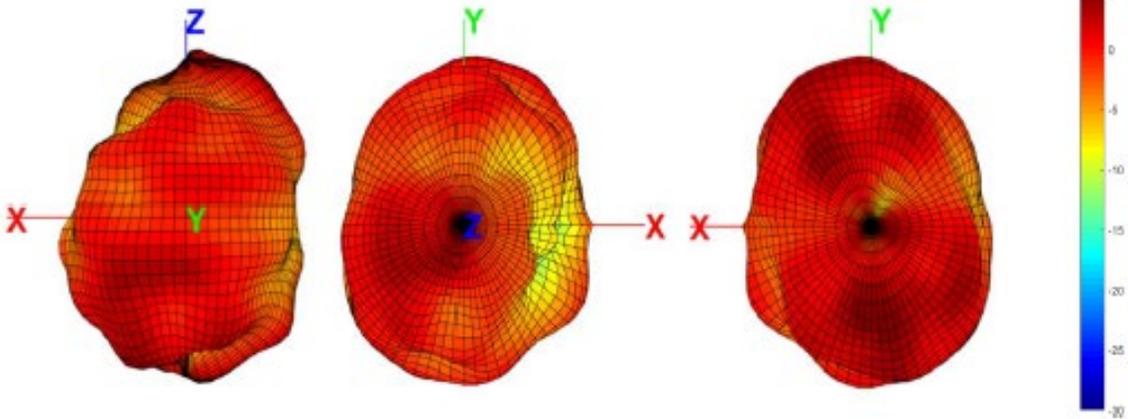
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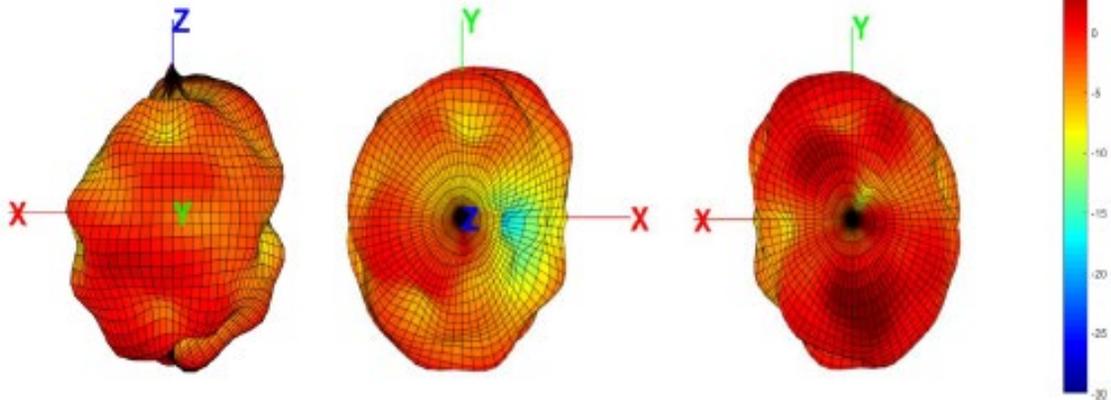
5150 MHz (unit: dBi)



5550 MHz (unit: dBi)



5850 MHz (unit: dBi)

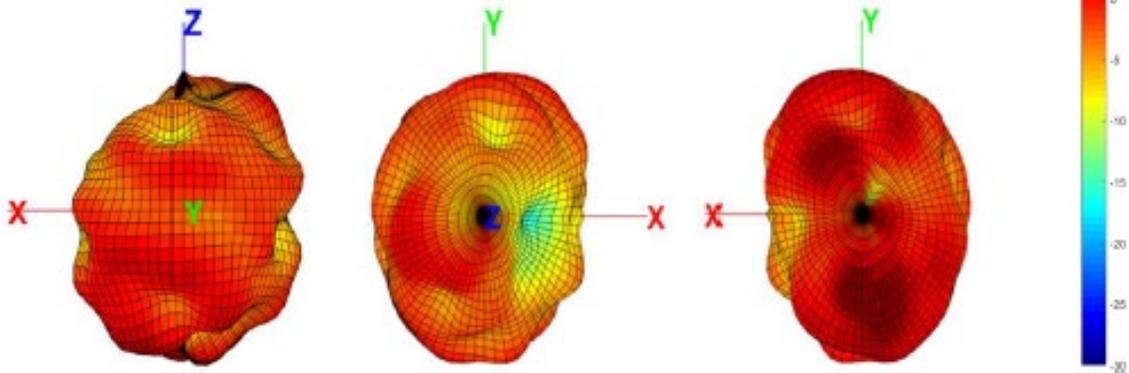


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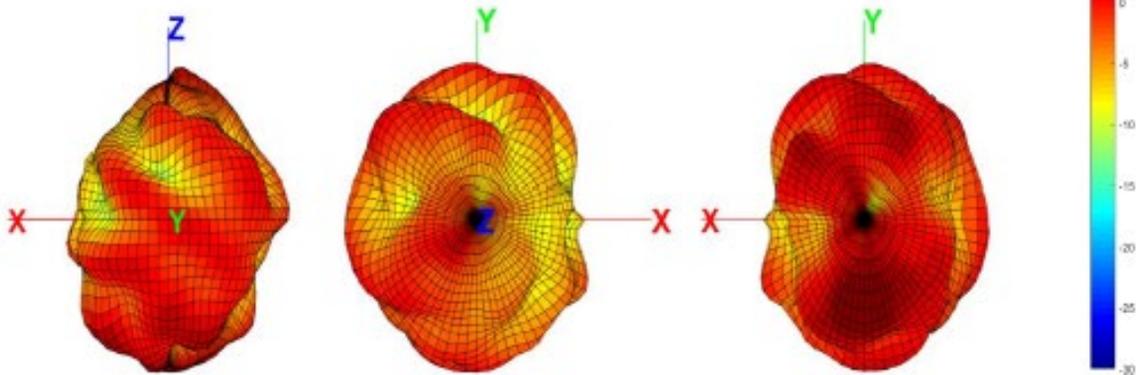
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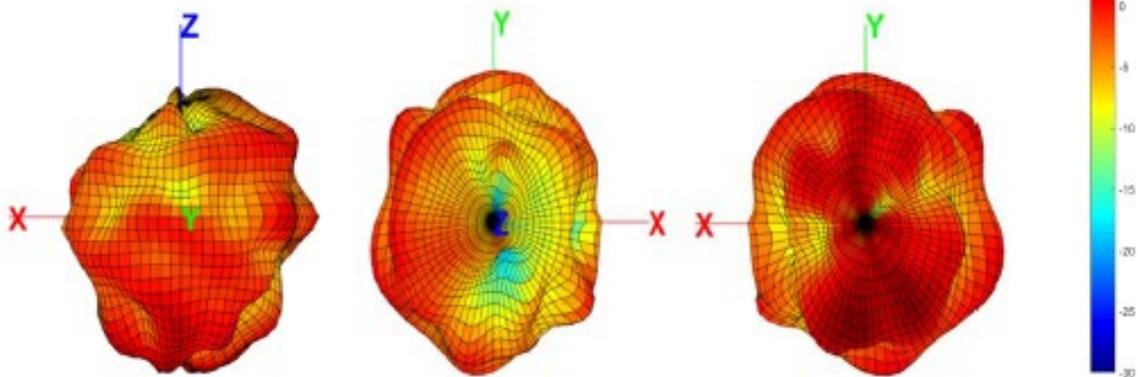
5925 MHz (unit: dBi)



6500 MHz (unit: dBi)



7125 MHz (unit: dBi)



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Package

Weight:

- Unit Weight: 1 ± 0.1 (g)

Quantity:

- Each PE Bag: 25 pcs
- Each Outer Box: 5,000pcs
↳ 200 PE Bags

