2400 & 5150 MHz WIFI External Antenna







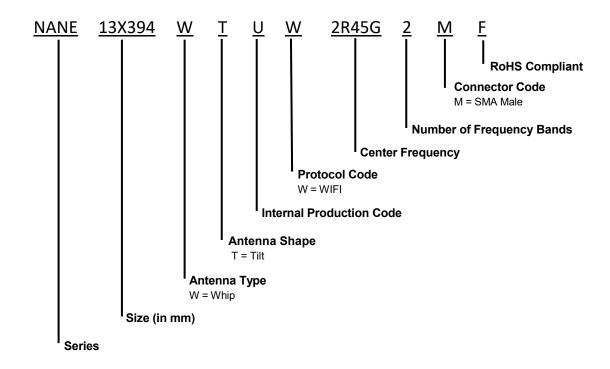
Description

NANE13X394WTUW2R45G2MF is an External Whip Antenna designed for WIFI applications. It operates within the frequency ranges of 2400~2500 MHz & 5150~5850 MHz making it perfect for Routers, Meters and Gateways.

Features

- 2.4 & 5.1 GHz WIFI Protocols
- 9 dBi High Peak Gain
- Up to 90° flexibility
- RoHs Complaint

Part Number Breakdown



Part Numbers Options

Part Number	Protocol	Connector	
NANE13X394WTUW2R45G2MF	WIFI	SMA Male	

The table represents assembled part numbers available on www.niccomp.com. For options not listed above please contact NIC

Performance Passives By Design

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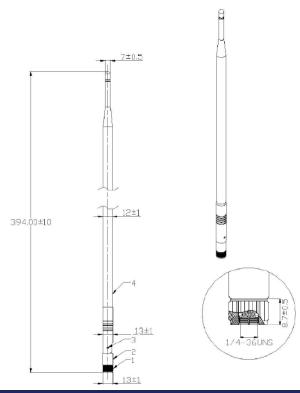




Specifications

Electrical						
Frequency Range	2400~2500 MHz 5150 ~5850 MHz					
Gain	9 dBi	5 dBi				
Efficiency	69.93%	80.26%				
VSWR	≤ 2.5	≤2				
Polarization	Vertical					
Radiation Pattern	Omni Directional					
Impedance	50 Ω					
Environmental						
Operating Temperature	-20°C ~ +80°C					
Storage Temperature	-20°C ~ +80°C					
Relative Humidity	95 % non-condensing					
Material	ABS					
ROHS Compliant	Yes					

Dimensions



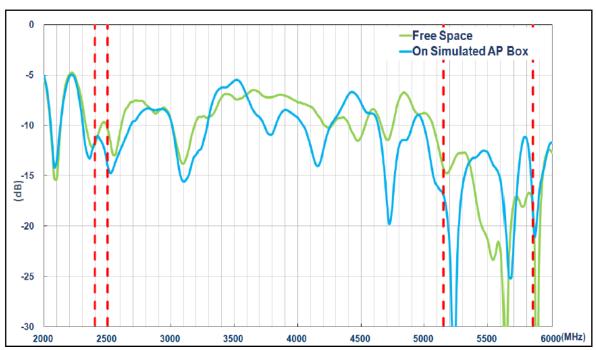




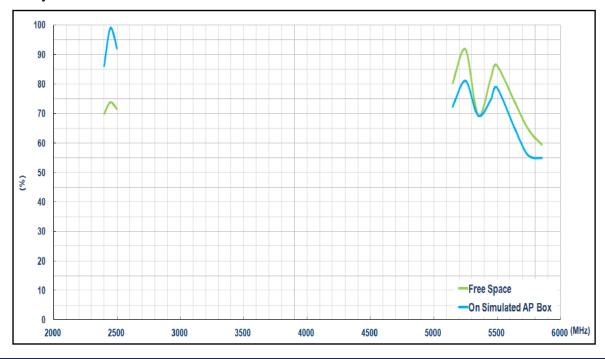




S-parameters:



Efficiency:



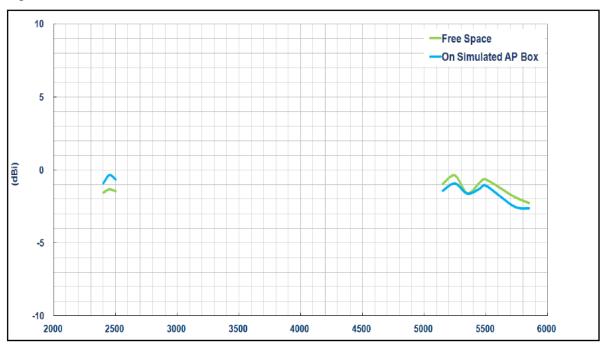




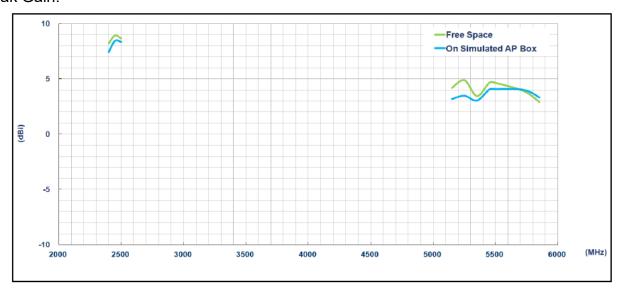




Average Gain:



Peak Gain:



Peak Gain Table	2400	2450	2500	5150	5550	5850	(MHz)
Free Space	8.22	9.02	8.66	4.20	4.65	2.93	(dBi)
On Simulated AP Box	7.42	8.50	8.33	3.20	4.09	3.34	(ubi)

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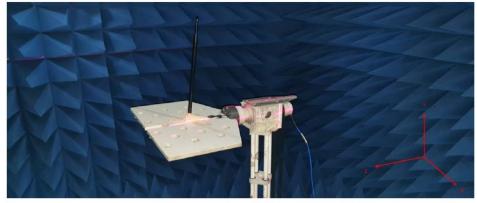


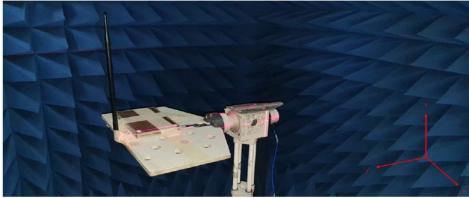


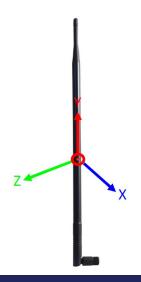


Radiation Patterns

The antenna radiation patterns are measured in a 3D Anechoic Chamber. The set up is shown below:







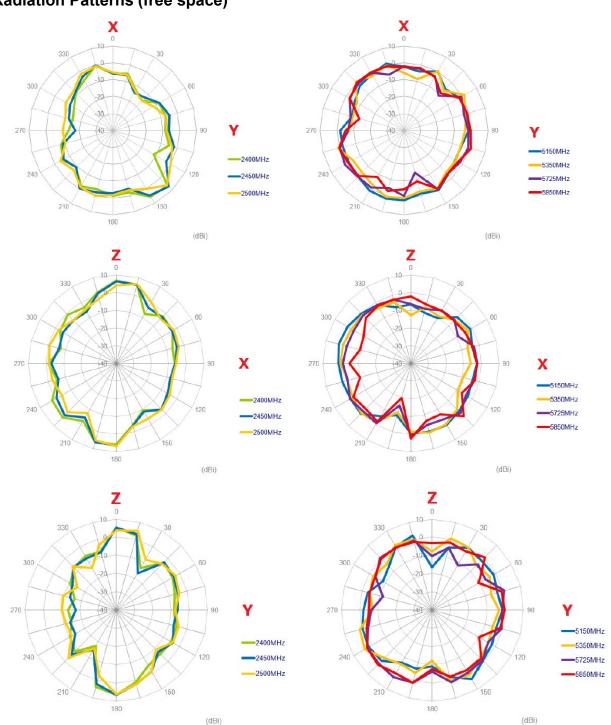
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2D Radiation Patterns (free space)











2D Radiation Patterns (On Simulated AP Box)

