

# Antenna Data Sheet

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Uant P/N:                      NPANT002                      REV: A

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	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Mark	
APPROVED BY:	Changxing. Liu	
DATE:	2024/04/09	

## Modification History

Version	Content Revision	Issued by	Date
A	Original version	Mark	2024-04-09



# *Content*

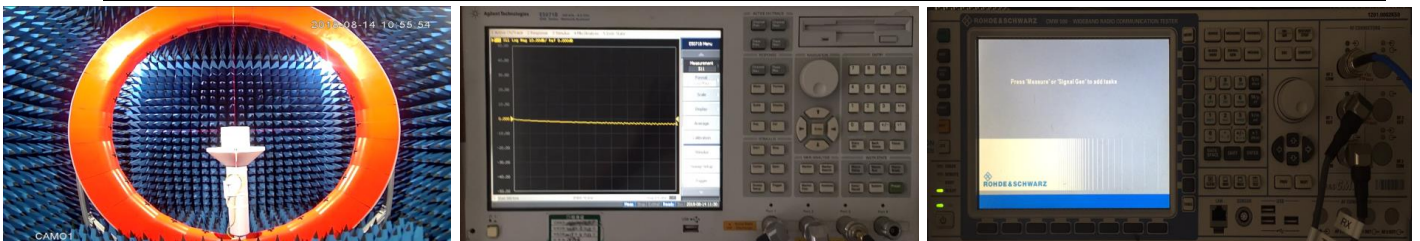
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

## 1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	142.3x57.9x1,L200	mm
Antenna Type	PIFA	
Frequency	746-894/2496-2690	MHz
Impedance	50	$\Omega$
VSWR	$\leq 3.6$	
Polarization	Linear Polarization	
Peak Gain	> 2.43	dBi
Efficiency	>57.46	%
Connector Type	IPEX MHF 4L	
Operating temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-40 $^{\circ}$ C~+85 $^{\circ}$ C	

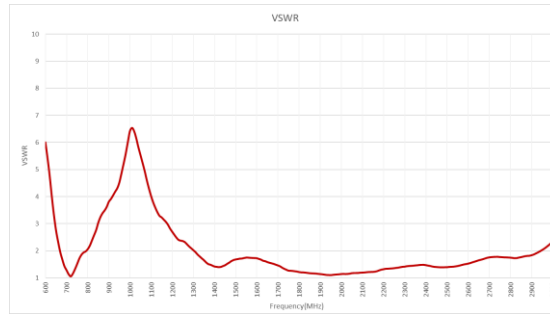
## 2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave chamber (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave chamber (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



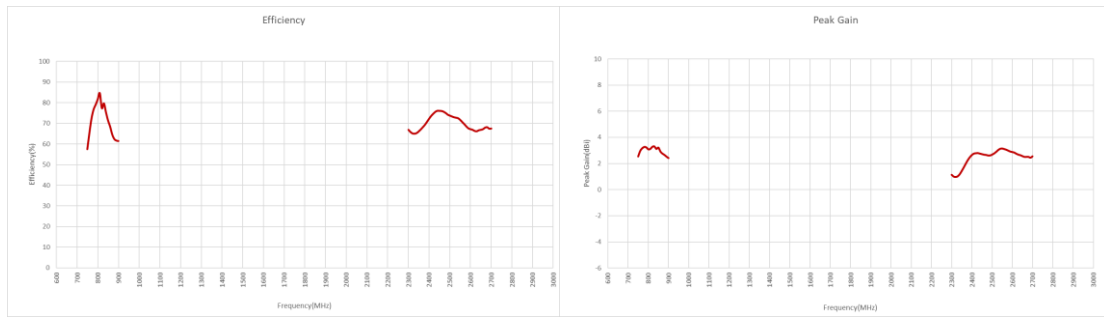
### 3. S Parameter

Frequency (MHz)	Max VSWR
<b>777-787</b>	2
<b>788-798</b>	2.1
<b>814-849</b>	3
<b>2500-2570</b>	1.5
<b>2570-2620</b>	1.6
<b>2496-2690</b>	1.7



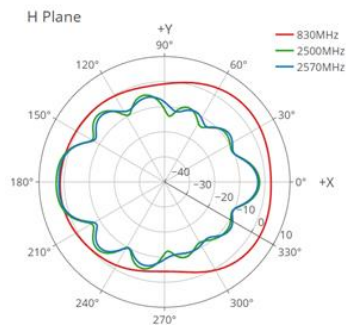
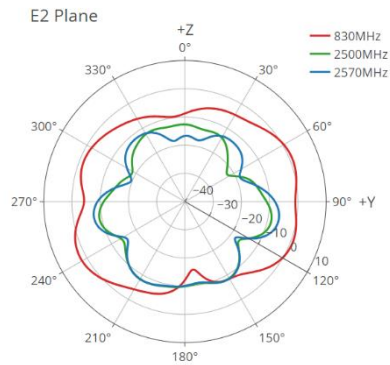
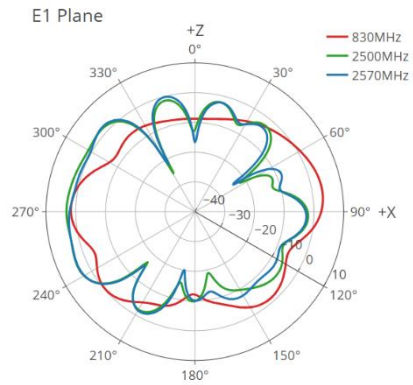
### 4. Efficiency and Gain

Frequency (MHz)	<b>777-787</b>	<b>788-798</b>	<b>814-849</b>	<b>2500-2570</b>	<b>2570-2620</b>	<b>2496-2690</b>
<b>AVG Efficiency (%)</b>	77.8	80.3	77.7	72.1	67.6	69.2
<b>Max Peak Gain (dBi)</b>	3.28	3.25	3.32	3.16	3.07	3.16



## 5. Radiation Pattern

### Antenna 2D Radiation Pattern



## 6. Mechanical Specification:

