

# Antenna Data Sheet

---

Uant P/N:                      NPANT004                      REV: A

---

	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*

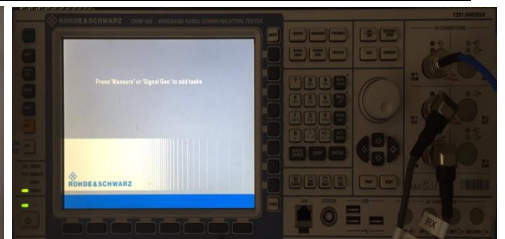
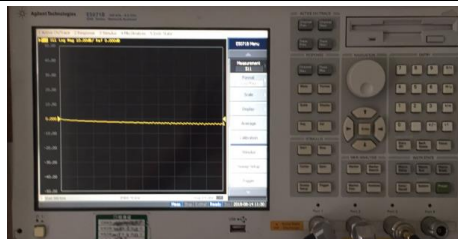
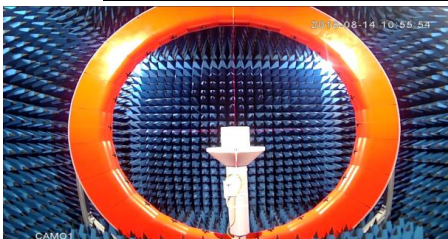
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

## 1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	163.1x59.8x1,L200	mm
Antenna Type	PIFA	
Frequency	699-746/3450-3980	MHz
Impedance	50	$\Omega$
VSWR	$\leq 2.9$	
Polarization	Linear Polarization	
Peak Gain	> 1.04	dBi
Efficiency	> 45.92	%
Connector Type	IPEX MHF 4L	
Operating temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-40 $^{\circ}$ C~+85 $^{\circ}$ C	

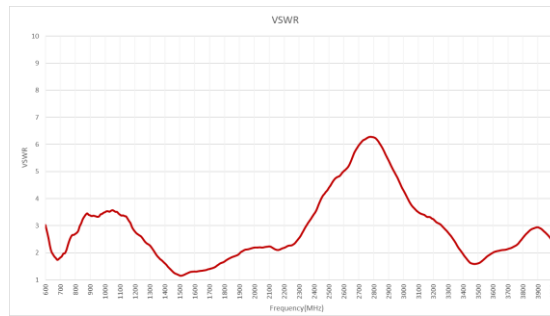
## 2. Test Items and Equipment

	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)



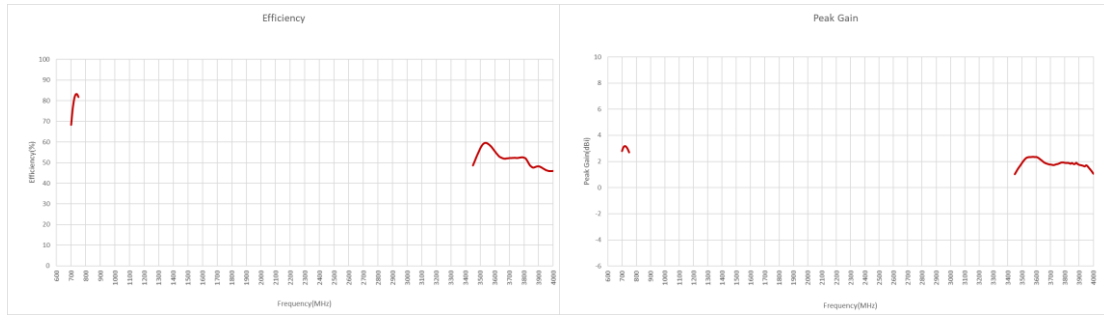
### 3. S Parameter

Frequency (MHz)	Max VSWR
<b>699-716</b>	2.0
<b>3450-3550</b>	1.8
<b>3700-3980</b>	2.9



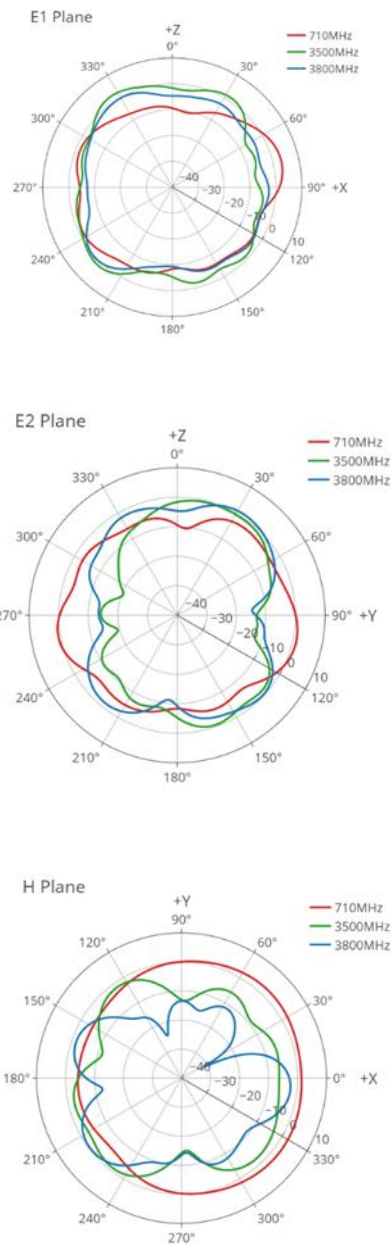
### 4. Efficiency and Gain

Frequency (MHz)	<b>699-716</b>	<b>3450-3550</b>	<b>3700-3980</b>
<b>AVG Efficiency (%)</b>	74.9	55.7	49.6
<b>Max Peak Gain (dBi)</b>	3.19	2.35	1.94



## 5. Radiation Pattern

### Antenna 2D Radiation Pattern



## 6. Mechanical Specification:

