

# Antenna Data Sheet

---

**Uant P/N:**

NPANT006

**REV: A**

---

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

## Modification History

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



# *Content*

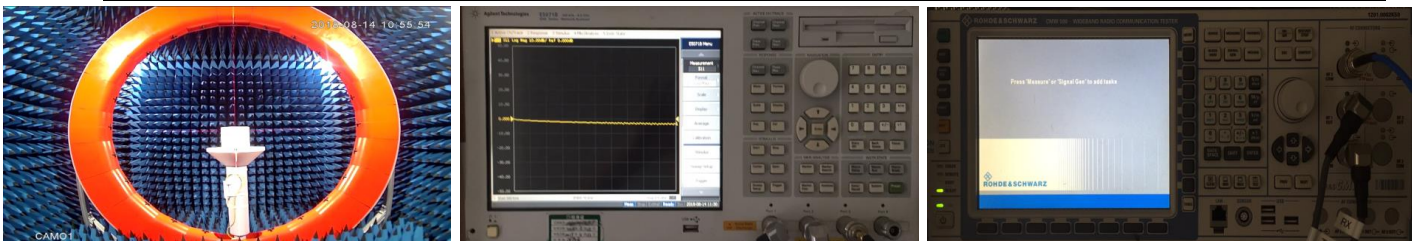
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

## 1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	142.3x57.9x1,L200	mm
Antenna Type	PIFA	
Frequency	746-798	MHz
Impedance	50	$\Omega$
VSWR	$\leq 2.15$	
Polarization	Linear Polarization	
Peak Gain	$> 1.38$	dBi
Efficiency	$> 59.36$	%
Connector Type	IPEX MHF 4L	
Operating temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
Storage Temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	

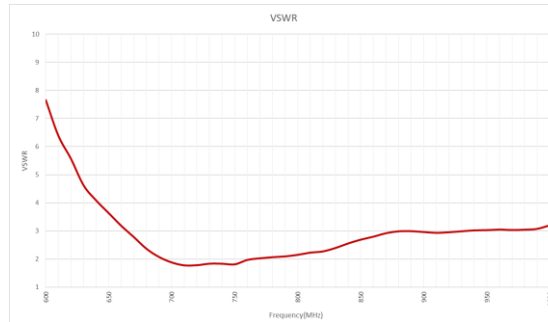
## 2. Test Items and Equipment

	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)



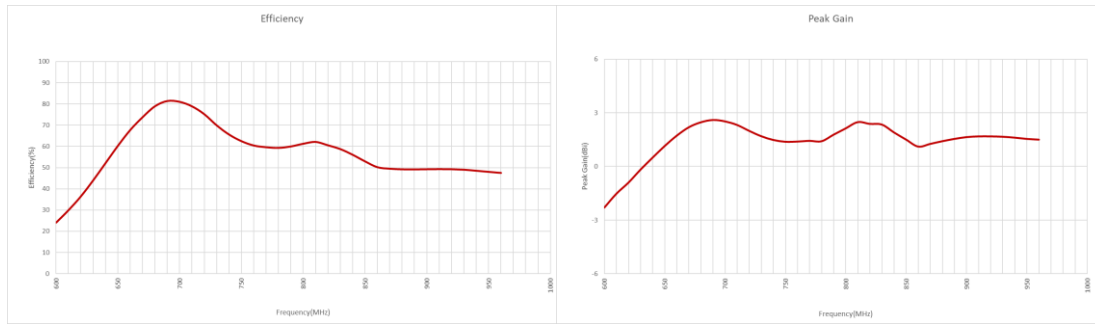
### 3. S Parameter

Frequency (MHz)	Max VSWR
<b>777-787</b>	2.1
<b>788-798</b>	2.1



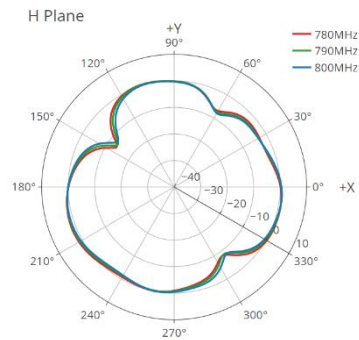
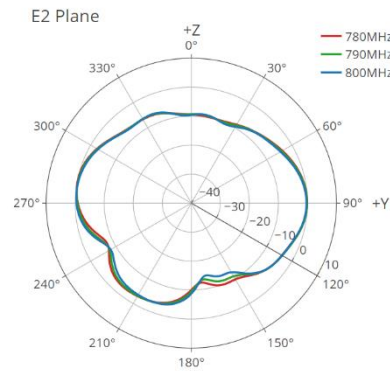
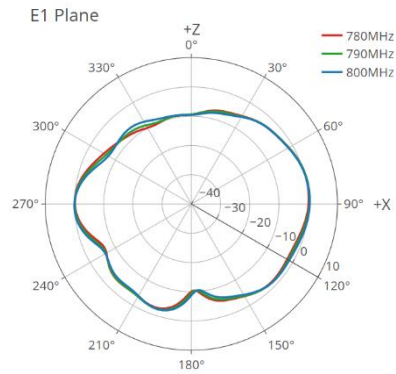
### 4. Efficiency and Gain

Frequency (MHz)	<b>777-787</b>	<b>788-798</b>
<b>AVG Efficiency (%)</b>	59.7	60.7
<b>Max Peak Gain (dBi)</b>	2.0	2.13



## 5. Radiation Pattern

### Antenna 2D Radiation Pattern



## 6. Mechanical Specification:

