Antenna Data Sheet

Uant P/N: NPANT001 REV: A

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

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Modification History

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

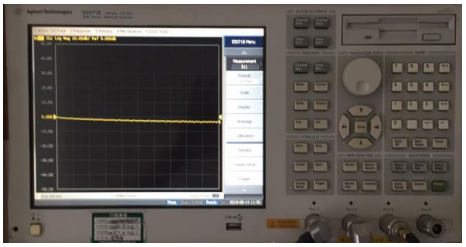
Content

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	163.5x61.5x1,L200	mm
Antenna Type	PIFA	
Frequency	617-698/1695-2200	MHz
Impedance	50	Ω
VSWR	≤2.4	
Polarization	Linear Polarization	
Peak Gain	> 1.29	dBi
Efficiency	>60.56	%
Connector Type	IPEX MHF 4L	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

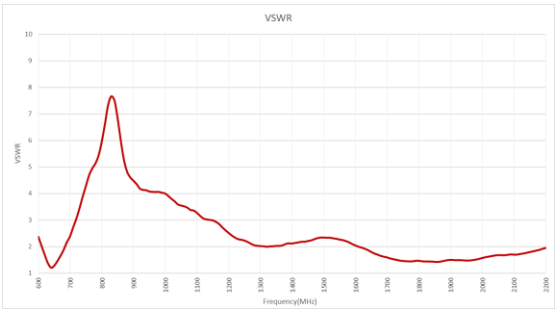
2.Test Items and Equipment

	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

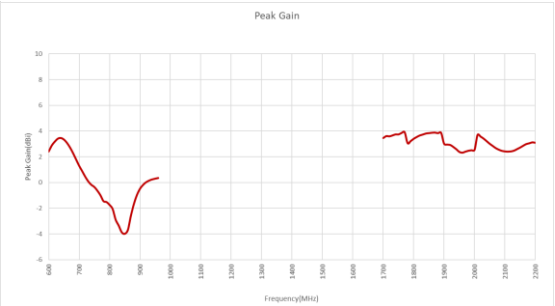
Frequency (MHz)	Max VSWR
663 – 698	2.4
1695-1710	1.6
1710-1780	1.6
1850-1920	1.5



4. Efficiency and Gain

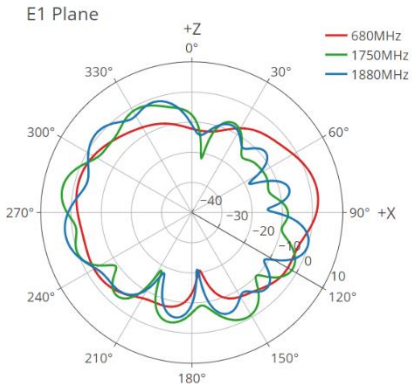
Fequency (MHz)	663-698	1695-1710	1710-1780	1850-1920
AVG Efficiency (%)	79.1	77.3	75.9	74.4
Max Peak Gain (dBi)	3.07	3.6	3.91	3.87

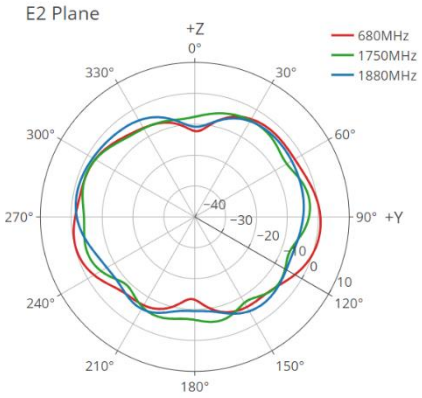

Efficiency
Efficiency(%)
Frequency(MHz)

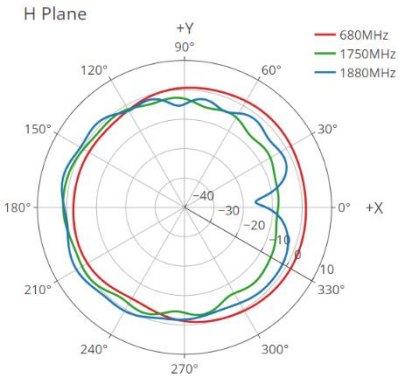

Peak Gain
Peak Gain(dBi)
Frequency(MHz)

5. Radiation Pattern

Antenna 2D Radiation Pattern







6.Mechanical Specification: