

# SPECIFICATION

## 5G NTN—S Band Patch Antenna



**Model No. : UPH5NS02**



## 1. General Description

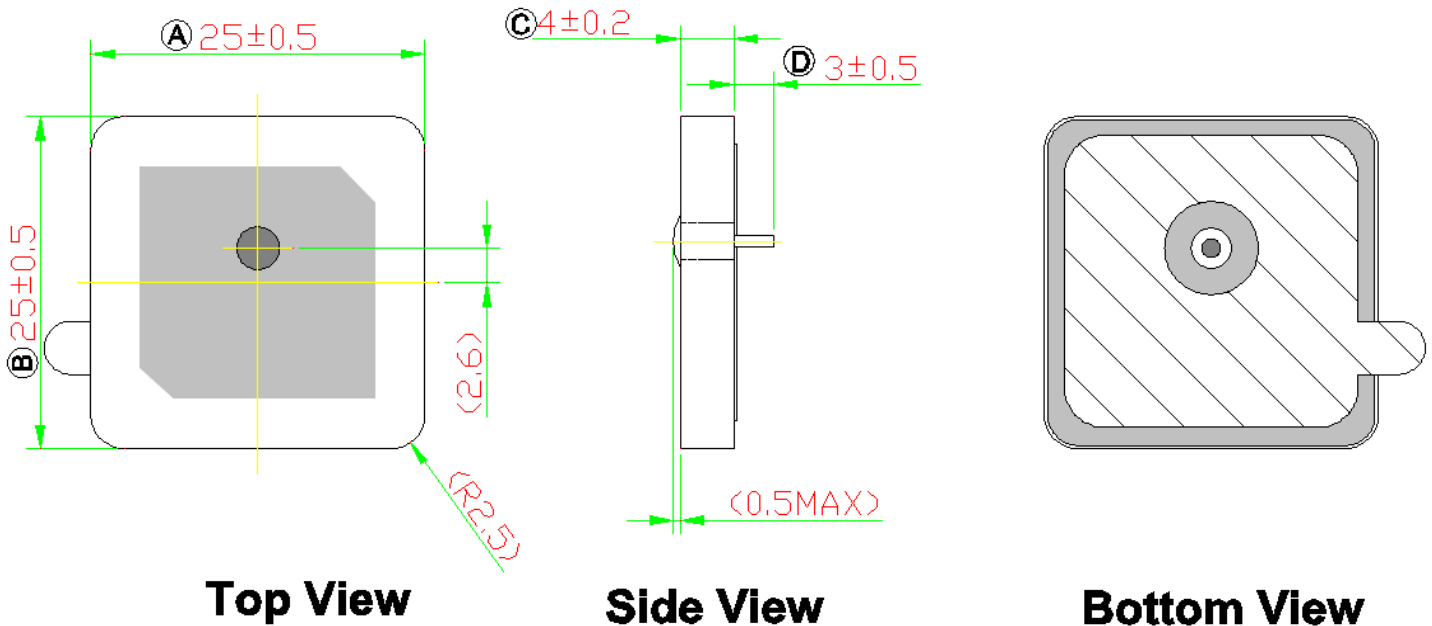
### 1.1 Electrical Properties

Parameter	Description
Application	5G NTN - S band
Frequency Band	1980~2020 MHz 2170~2200 MHz
Nominal Impedance	50 Ohm
Polarization	RHCP
※With 70 x 70 mm GND Plane	

### 1.2 Mechanical Properties

Parameter	Description
Dimensions	25*25*4 mm
Operating Temperature	-40°C~85°C
Storage Temperature (With Packing Sealed)	-5°C~40°C

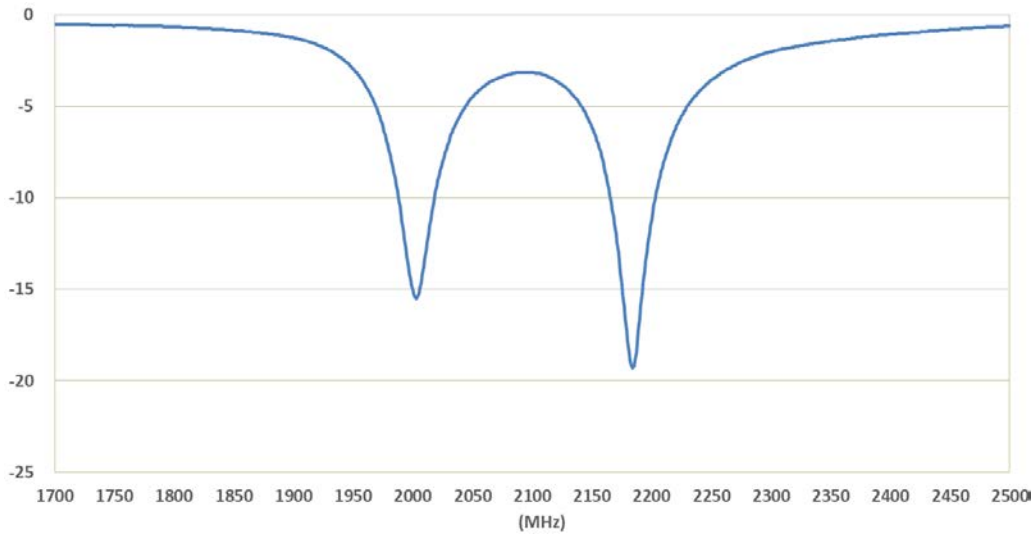
## 2. Appearance (Unit : mm)





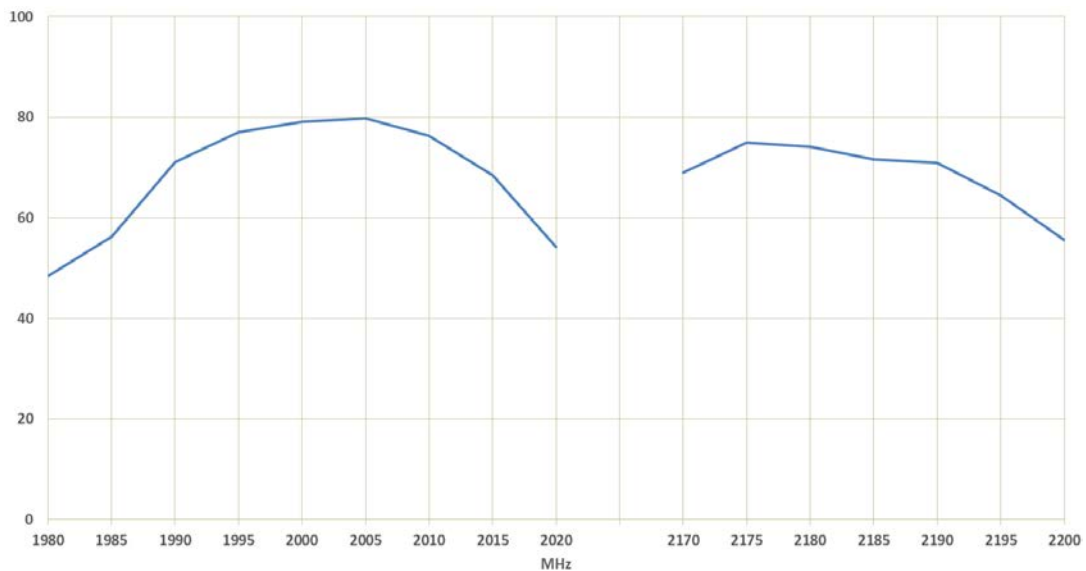
### 3. Performance

#### 3.1 Return Loss (dB)



#### 3.2 Efficiency (%)

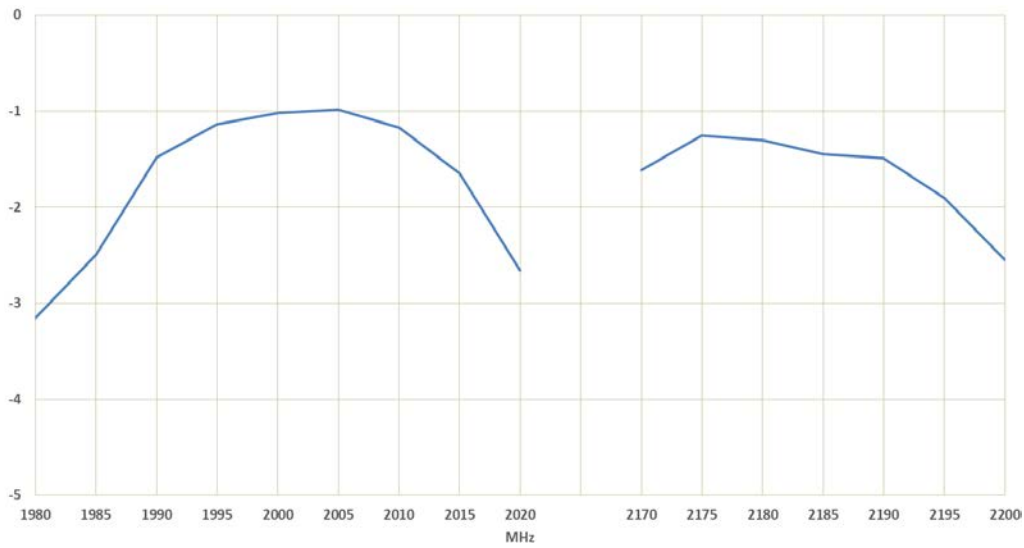
Frequency	2000 MHz	2185 MHz
Efficiency	79.1 %	71.7 %





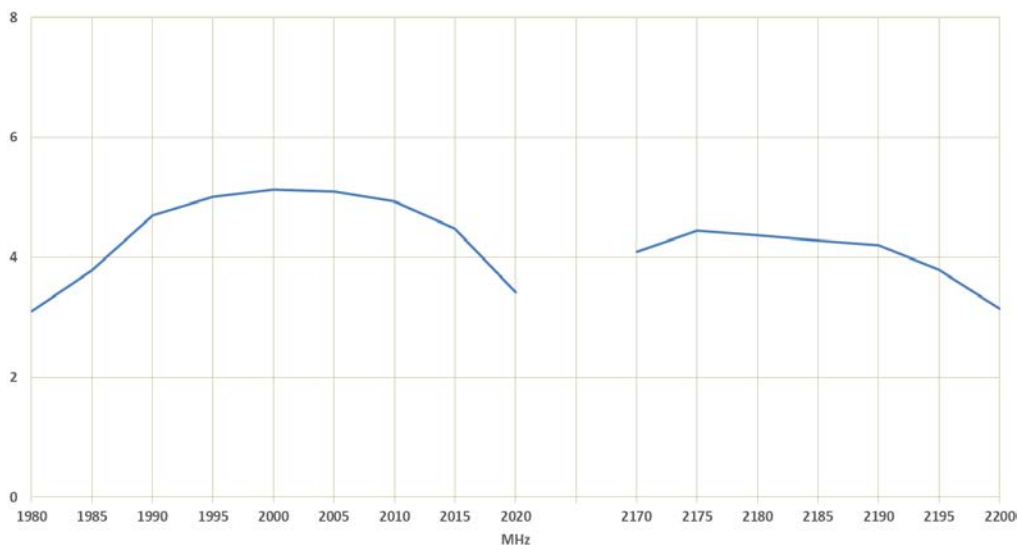
### 3.3 Average Gain (dBi)

Frequency	2000 MHz	2185 MHz
Average Gain	-1 dBi	-1.4 dBi

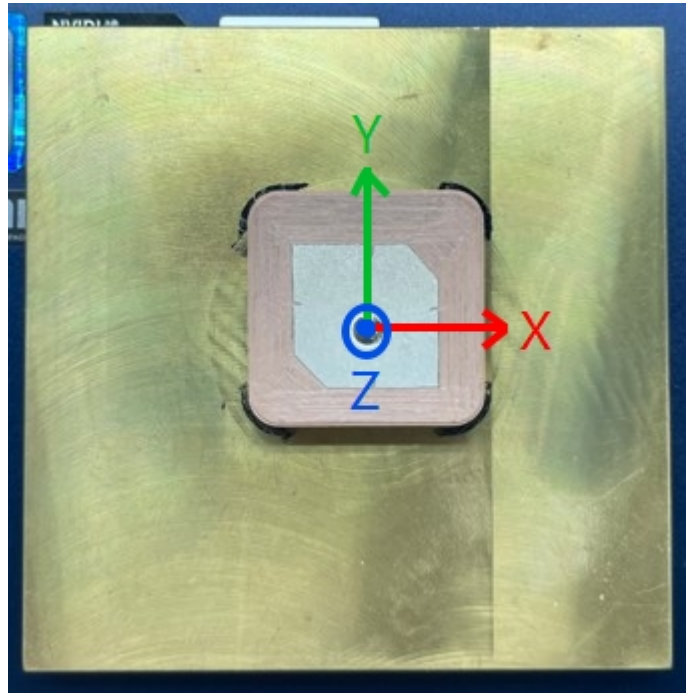


### 3.4 Peak Gain (dBi)

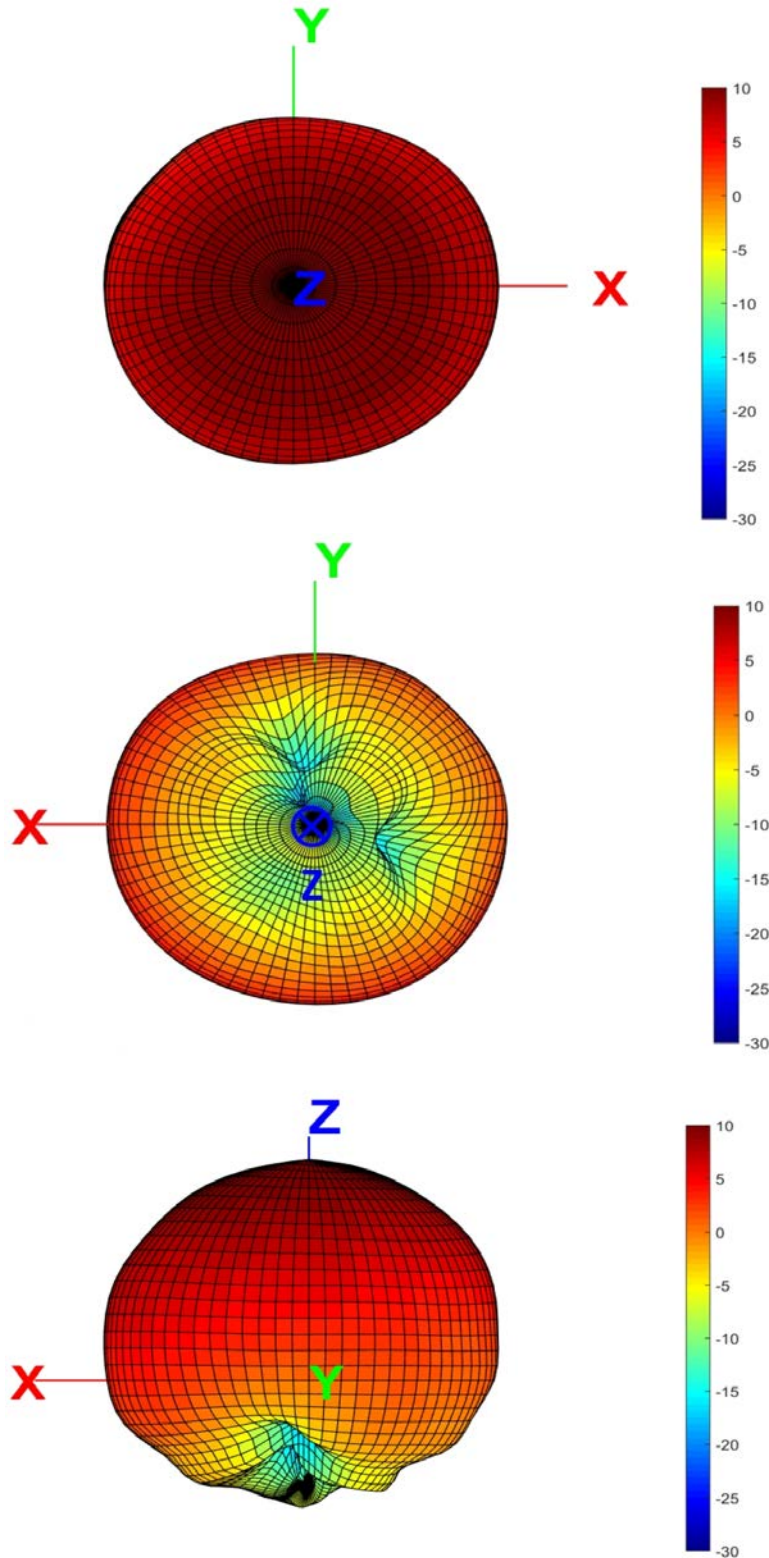
Frequency	2000 MHz	2185 MHz
Peak Gain	5.1 dBi	4.3 dBi



### 3.5 3D Radiation Pattern



2000 MHz (Unit : dBi)



2185 MHz (Unit : dBi)

