

Antenna

YE0013AA Datasheet

OC: YE0013AA



Version	Date	Author	Note
1.0	2020-06-23	Kenny YIN	Initial

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1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

2 Product Features

- Cellular LTE
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range (MHz)	700–2700
Input Impedence (Ω)	50
VSWR	≤ 3.0
Gain (dBi)	≤ 2.5
Polarization Type	Linear

Mechanical Specifications

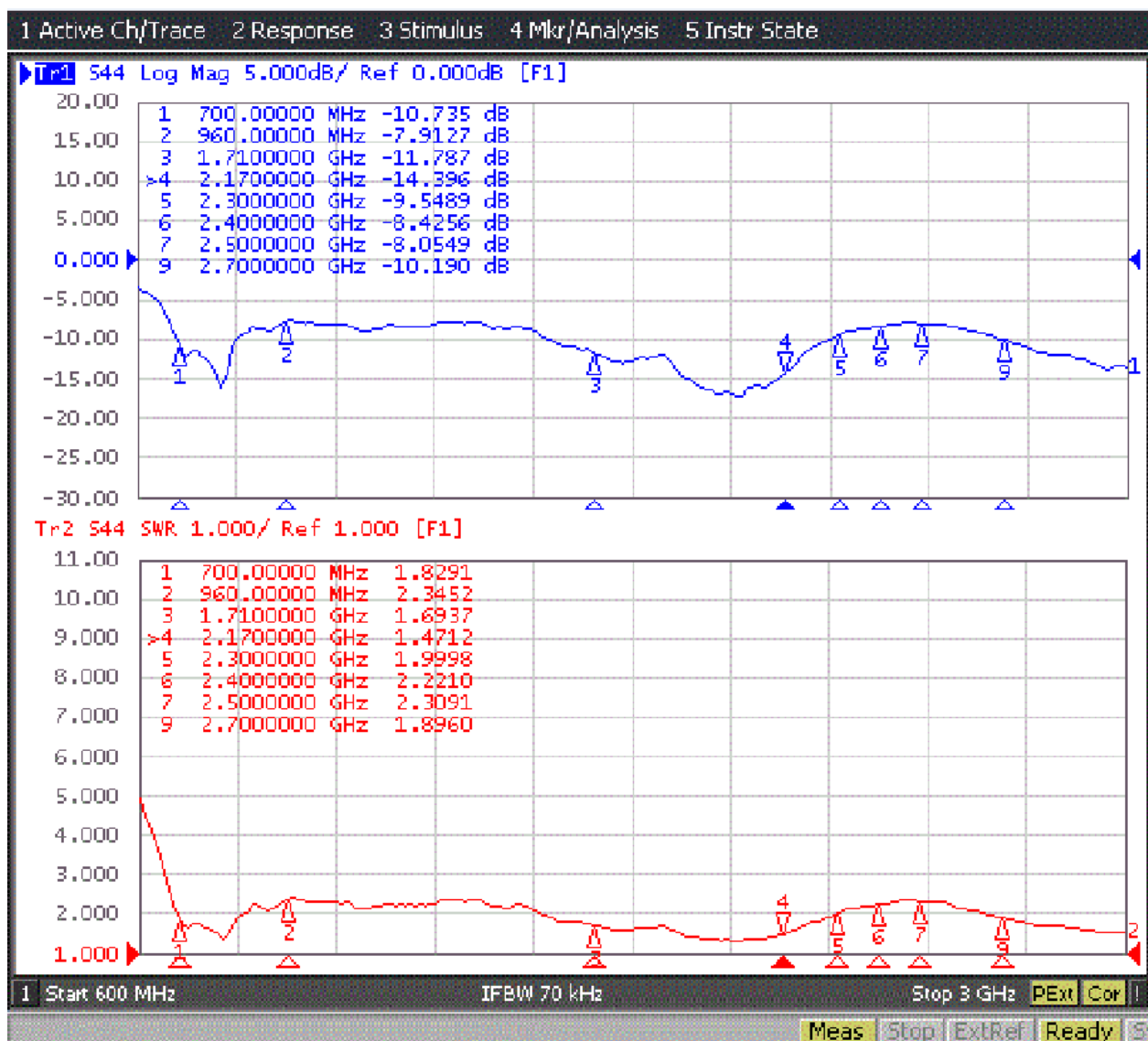
Antenna Size (mm)	115.4 x 17.5x $\varnothing$ 10.2
Casing	TPEE
Radiator	Cuprum
Connect Type	SMA (Male pin with internal thread)
Working Temperature ($^{\circ}\text{C}$)	-20 to +70
Radome Color	Black
Water proof grade	IP66

4 Overall Performance

- Test Environment
 - Agilent Technologies Network Analyzer E5071B 300 kHz – 8.5 GHz
 - SATEM24 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz.

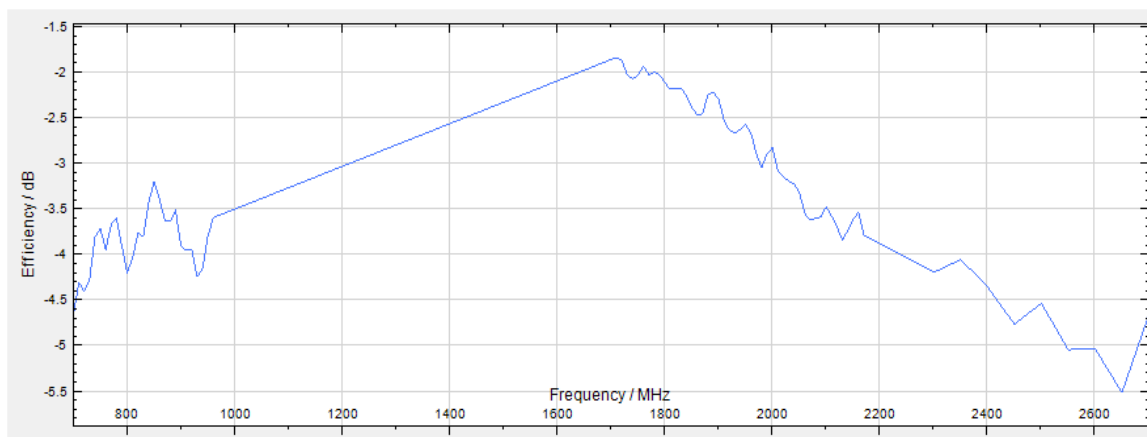


● VSWR



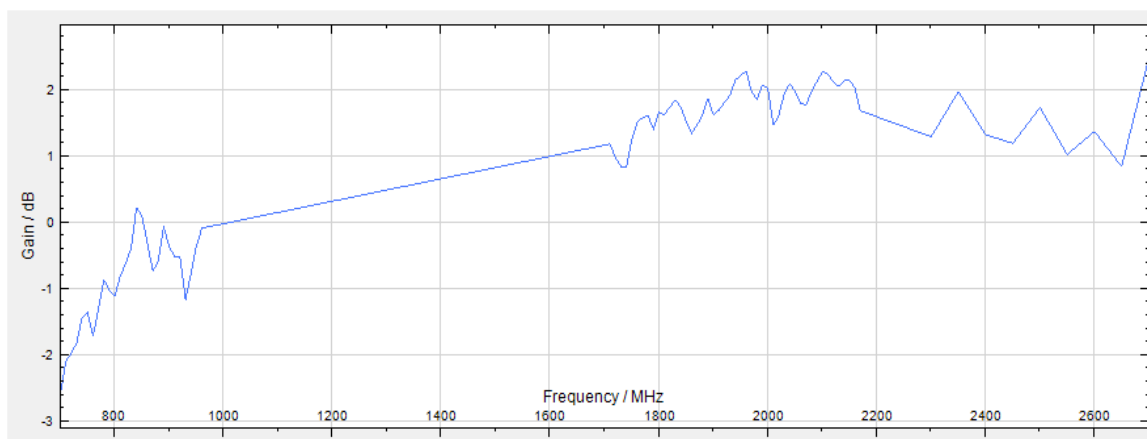
Frequency (MHz)	700	960	1710	2170	2300	2400	2500	2700
VSWR	1.82	2.34	1.69	1.47	1.99	2.22	2.30	1.89

● Efficiency



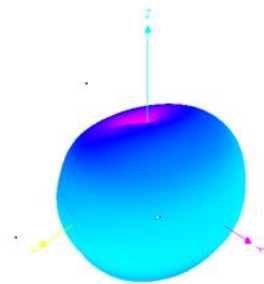
Frequency (MHz)	700	960	1710	1880	1920	2170	2300	2400	2500	2700
Efficiency (%)	34.2	43.7	65.6	59.7	54.5	41.8	38.1	36.7	35.2	34.2

● Gain

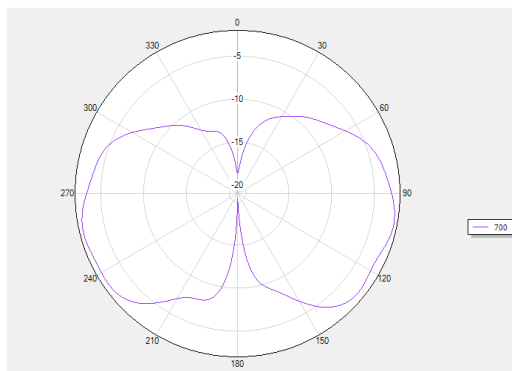


Frequency (MHz)	700	960	1710	1880	1920	2170	2300	2400	2500	2700
Gain	-2.59	-0.08	1.19	1.63	1.82	1.69	1.3	1.33	1.74	2.48

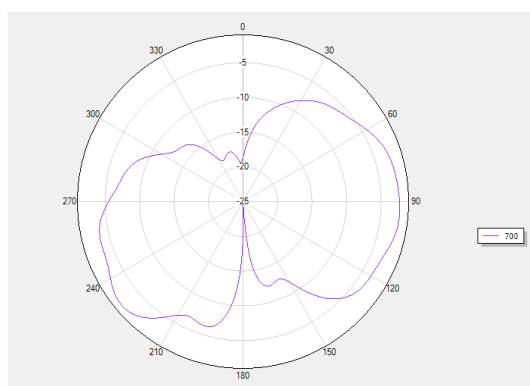
● Radiation Patterns



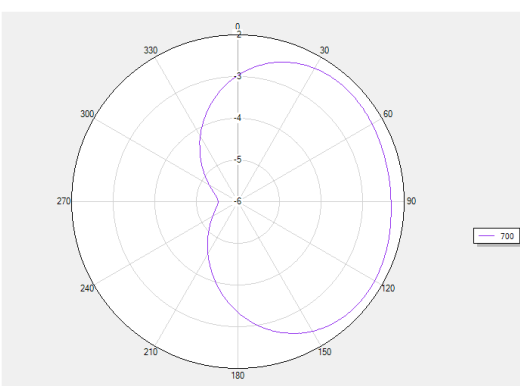
700MHz



Phi 0 2D 图



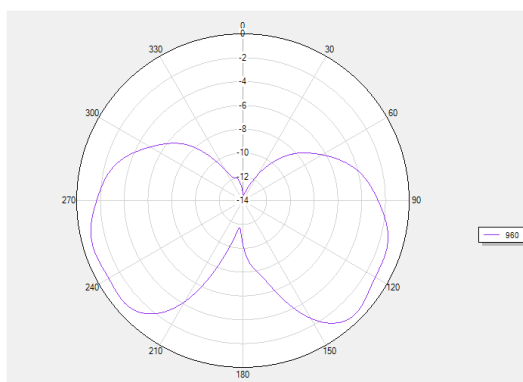
Phi 90 2D 图



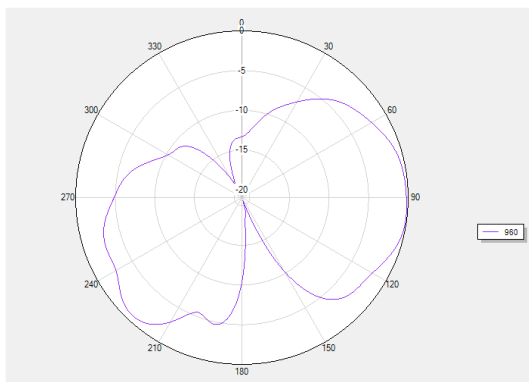
Theta 90 2D 图



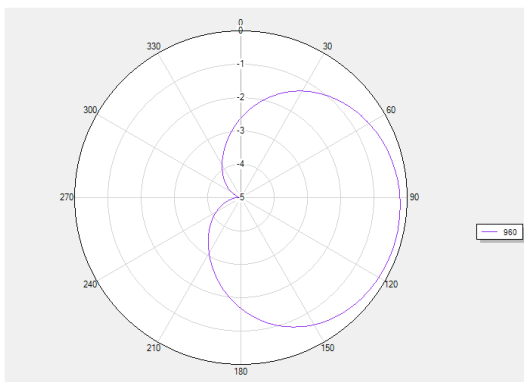
960MHz



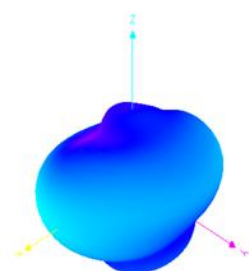
Phi 0 2D 图



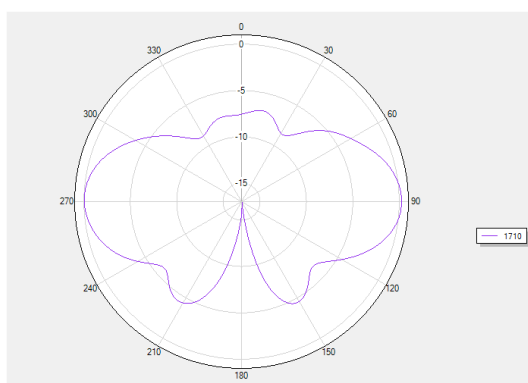
Phi 90 2D 图



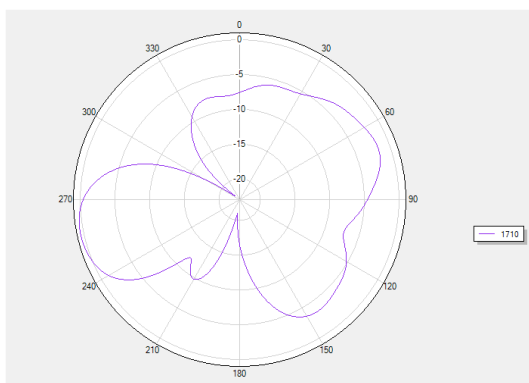
Theta 90 2D 图



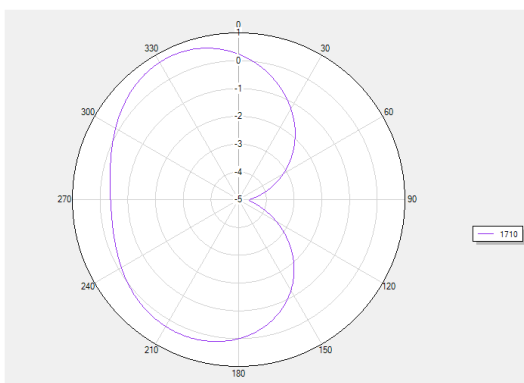
1710MHz



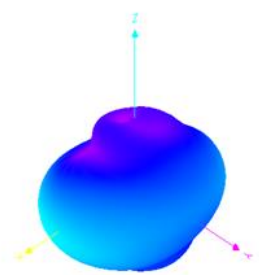
Phi 0 2D 图



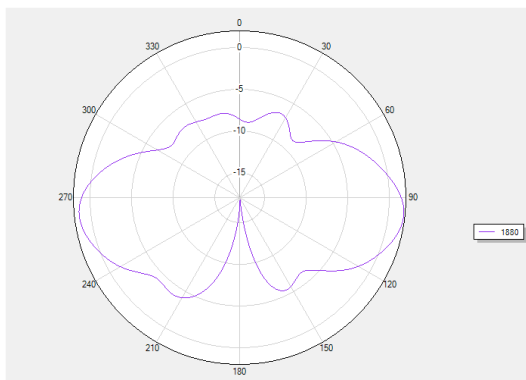
Phi 90 2D 图



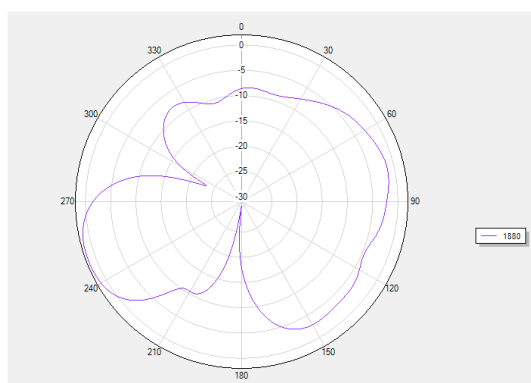
Theta 90 2D 图



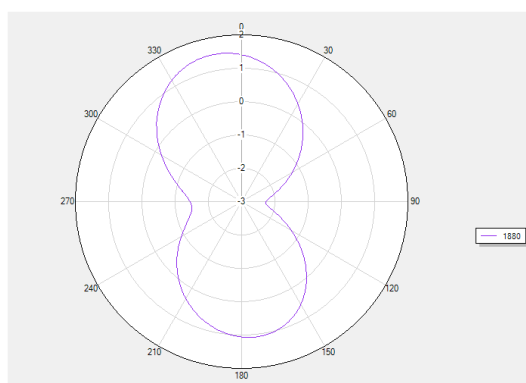
1880MHz



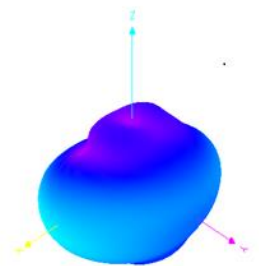
Phi 0 2D 图



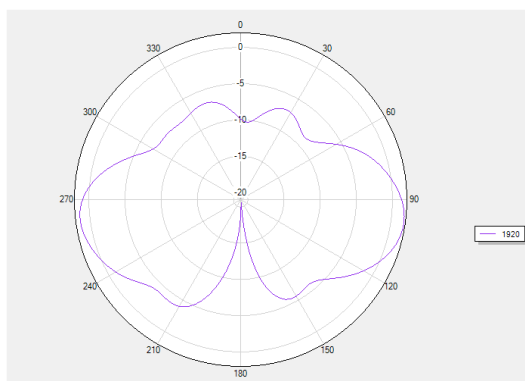
Phi 90 2D 图



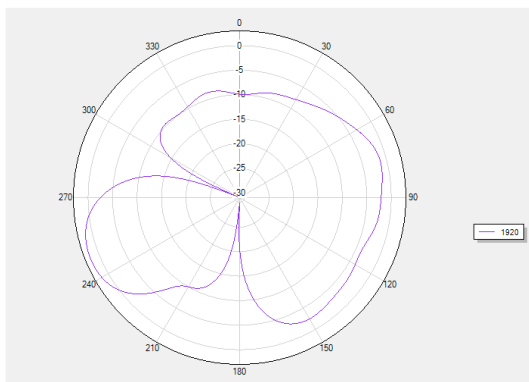
Theta 90 2D 图



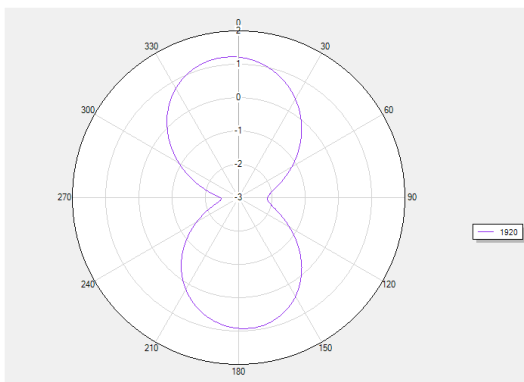
1920MHz



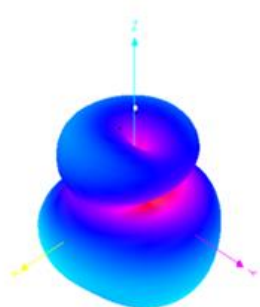
Phi 0 2D 图



Phi 90 2D 图



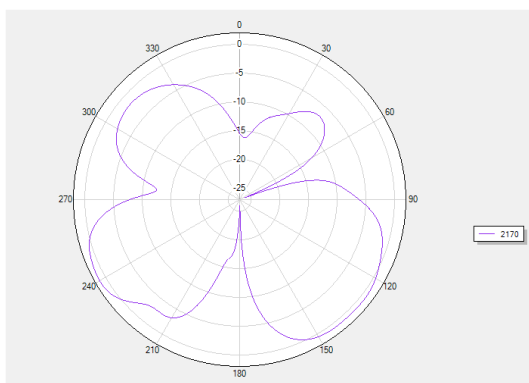
Theta 90 2D 图



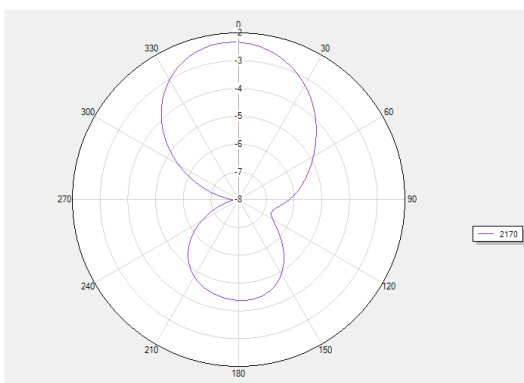
2170MHz



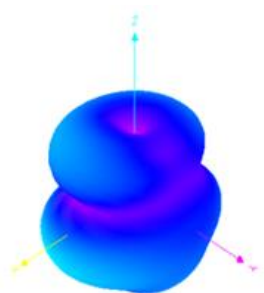
Phi 0 2D 图



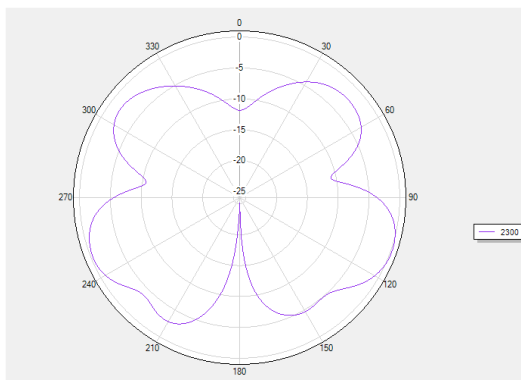
Phi 90 2D 图



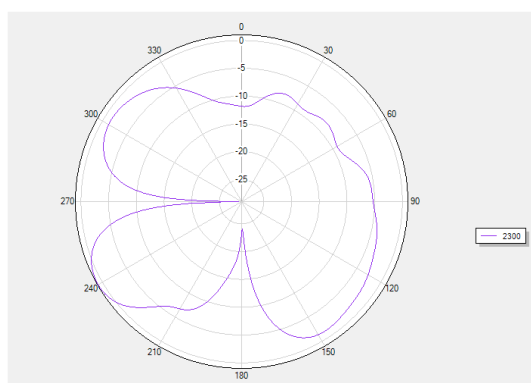
Theta 90 2D 图



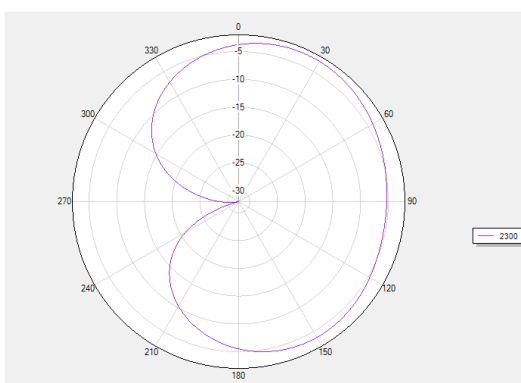
2300MHz



Phi 0 2D 图



Phi 90 2D 图



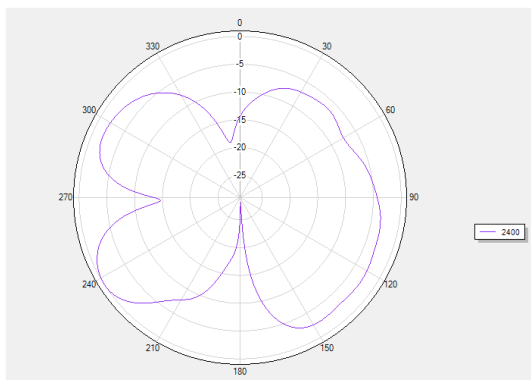
Theta 90 2D 图



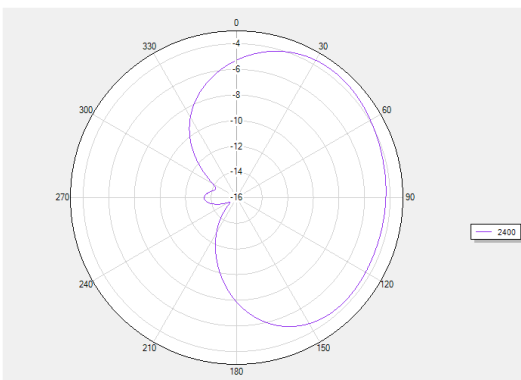
2400MHz



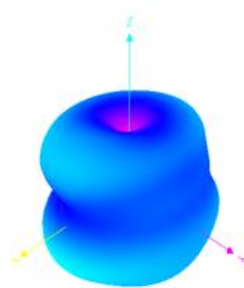
Phi 0 2D 图



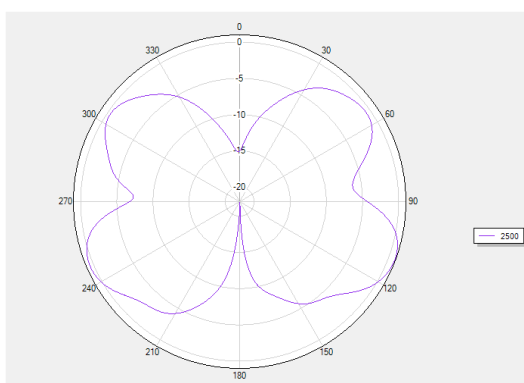
Phi 90 2D 图



Theta 90 2D 图



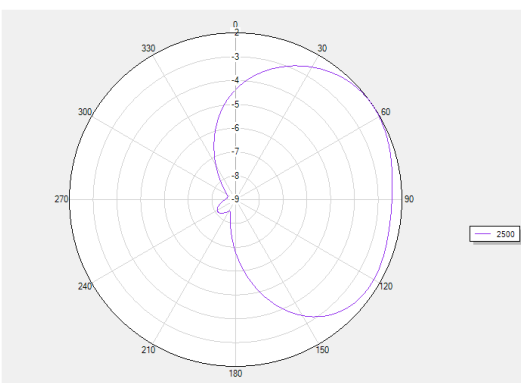
2500MHz



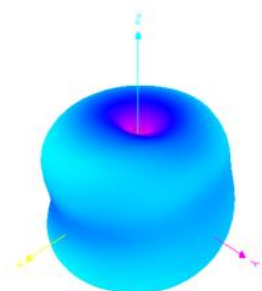
Phi 0 2D 图



Phi 90 2D 图



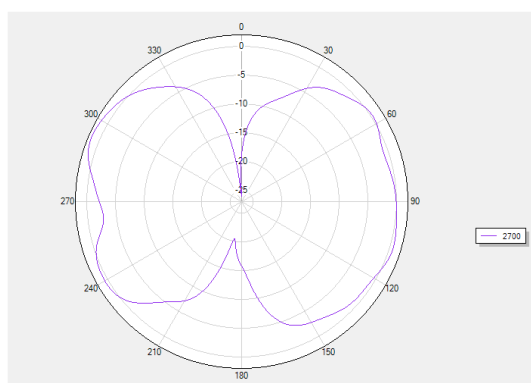
Theta 90 2D 图



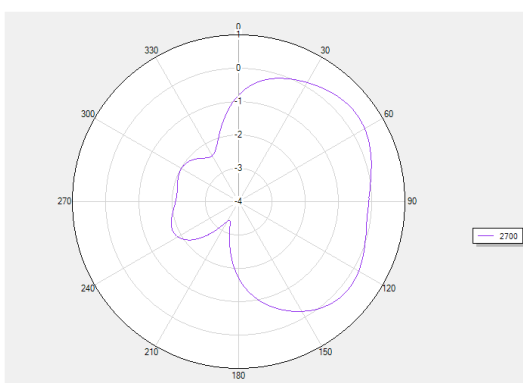
2700 MHz



Phi 0 2D 图

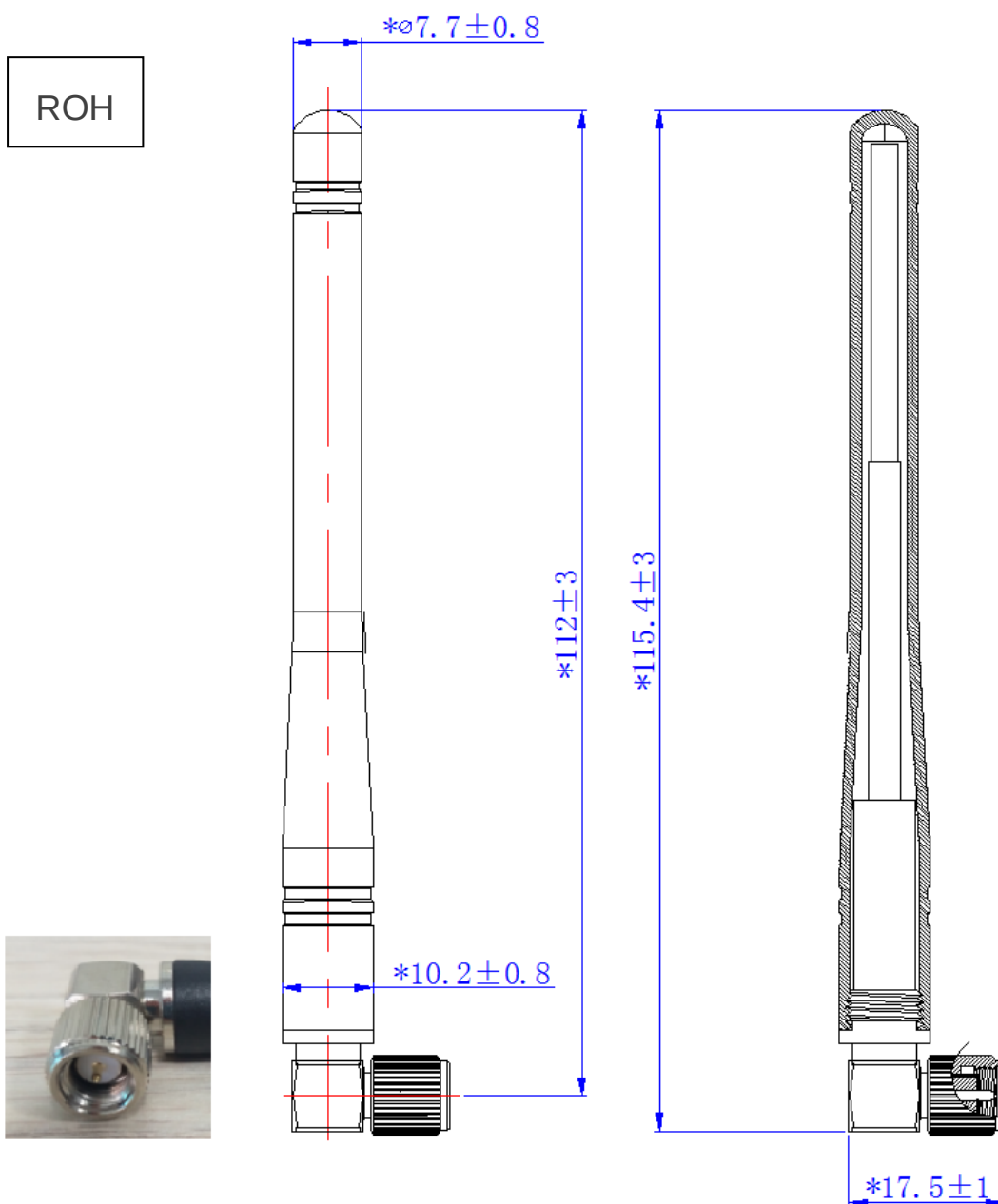


Phi 90 2D 图



Theta 90 2D 图

5 Product Size



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