

Antenna

YF0008AA Datasheet

OC: YF0008AA



Version	Date	Author	Note
1.0	2020-07-15	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 5G
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range	700 MHz–6000 MHz
Input Impedence	50 Ω
VSWR	≤ 2.5
Gain	≤ 5 dBi
Polarization Type	Linear

Mechanical Specifications

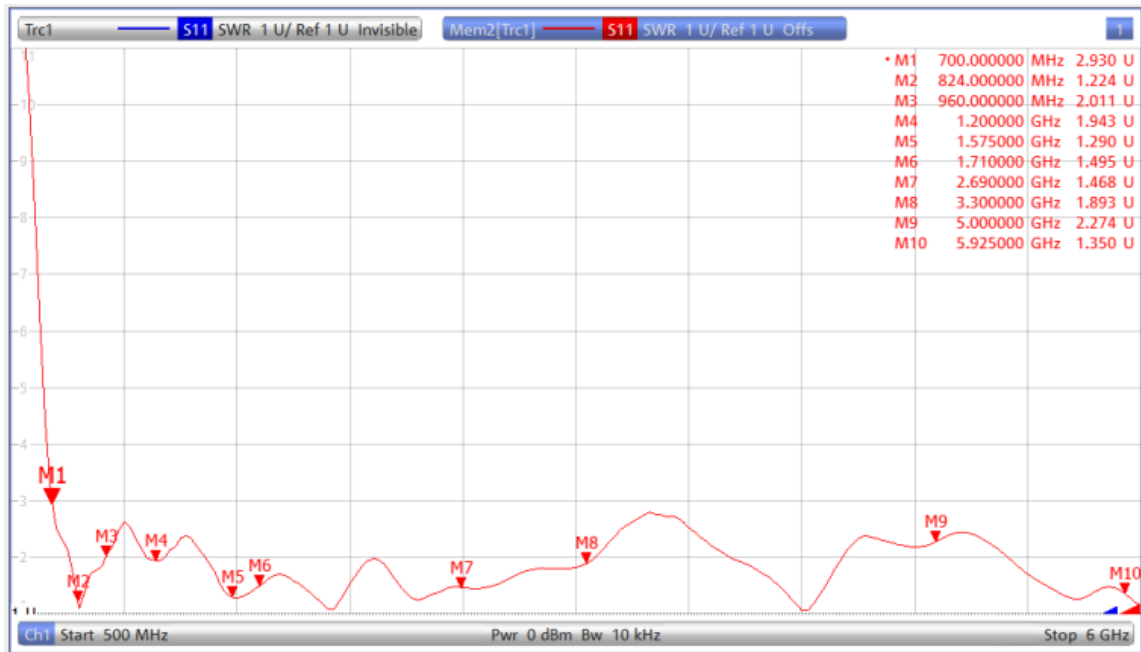
Antenna Size	112.50 mm $\times$ 16.2 mm
Casing	/
Radiator	Cuprum
Connect Type	IPEX 4
Working Temperature	-30 °C to +80°C
Radome Color	Black

4 Overall Performance

- Test Environment
 - KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 6.5 GHz
 - RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz.

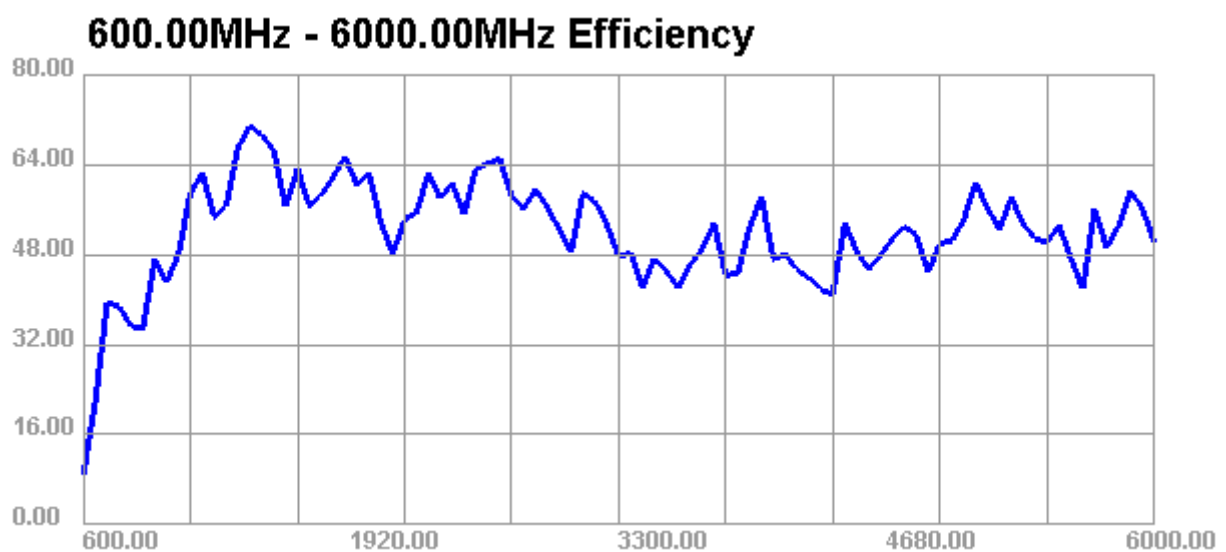


● VSWR



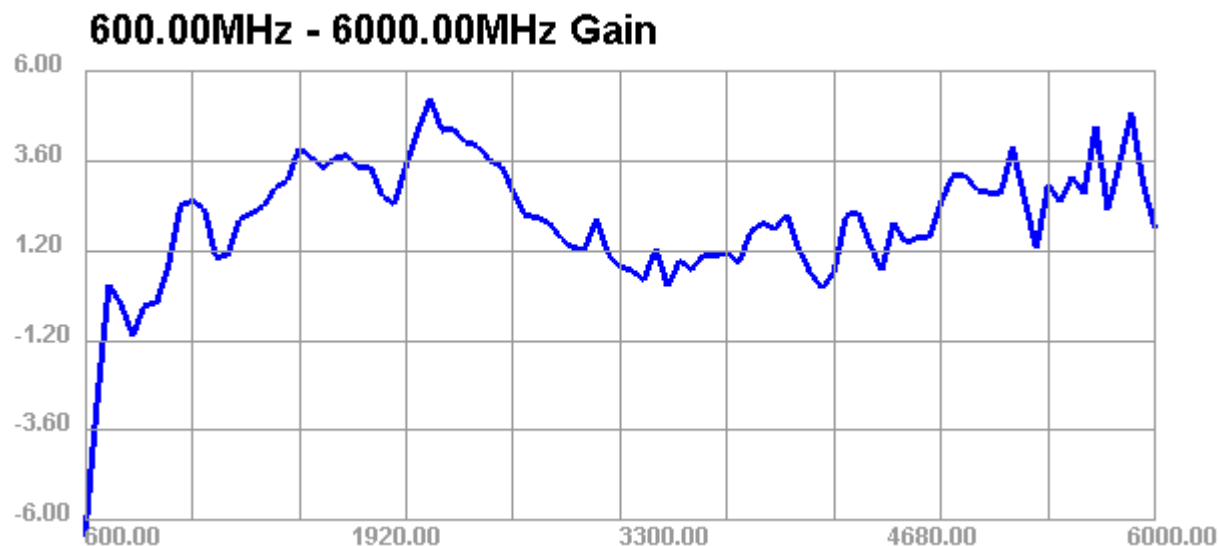
Frequency(MHz)	700	824	960	1200	1575	1710	2690	3300	5000	5925
VSWR	2.93	1.22	2.01	1.94	1.29	1.49	1.46	1.89	2.27	1.35

● Efficiency



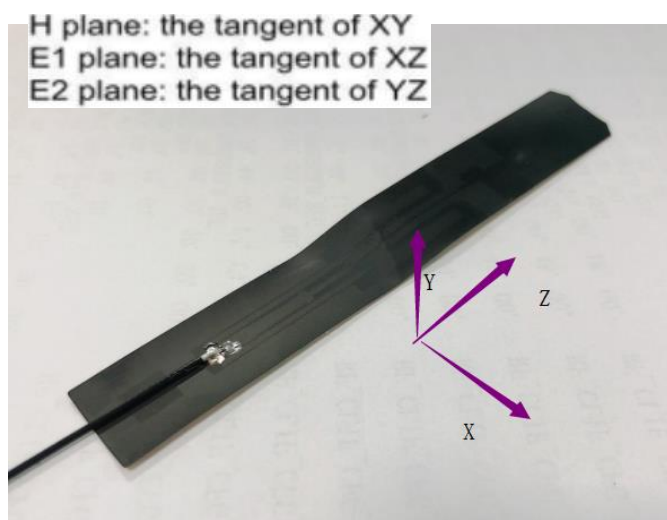
Frequency(MHz)	700	824	960	1200	1575	1710	2690	3300	5000	5925
Efficiency(%)	39.5	35.3	47.1	62.5	66.5	56.7	65.0	47.7	54.1	56.3

● Gain

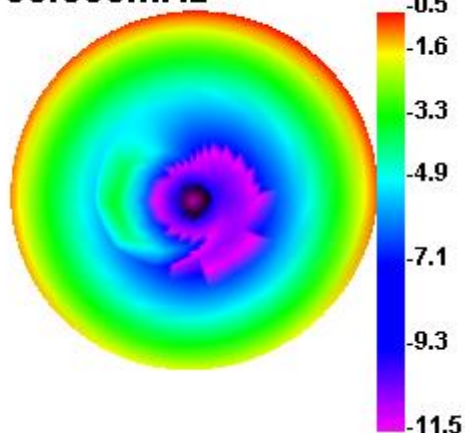


Frequency(MHz)	700	824	960	1200	1575	1710	2690	3300	5000	5925
Gain(dBi)	-0.51	0.77	1.01	1.83	2.89	3.56	4.27	1.03	2.86	2.52

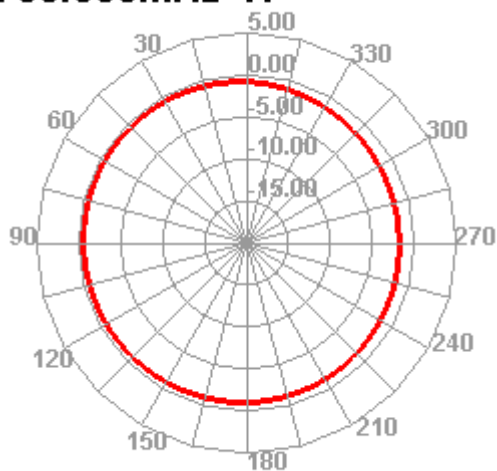
● Radiation Patterns



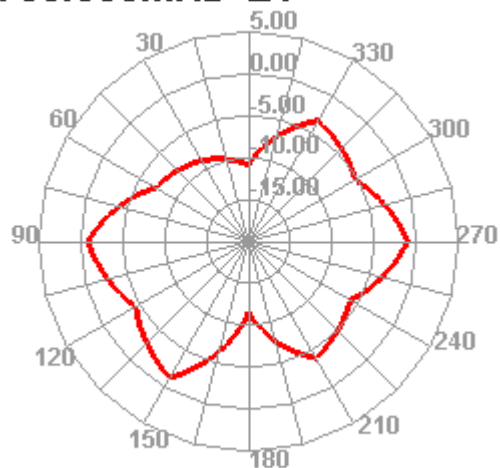
700.000MHz



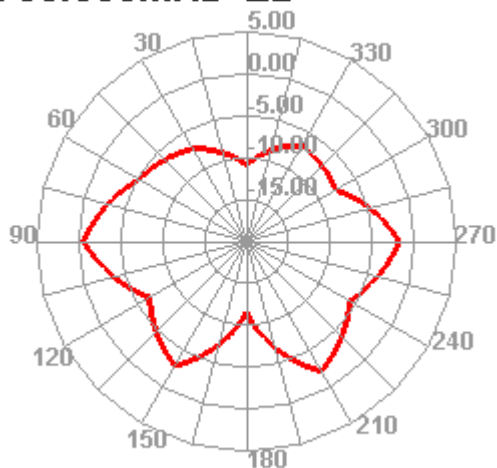
700.000MHz H



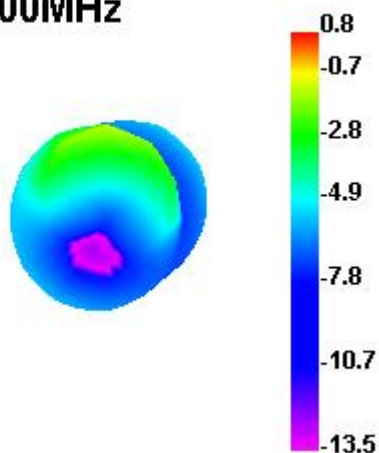
700.000MHz E1



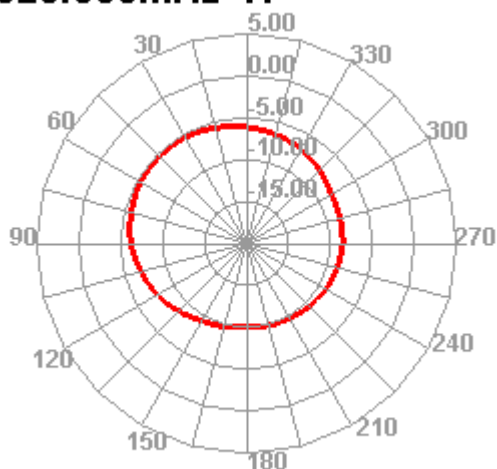
700.000MHz E2



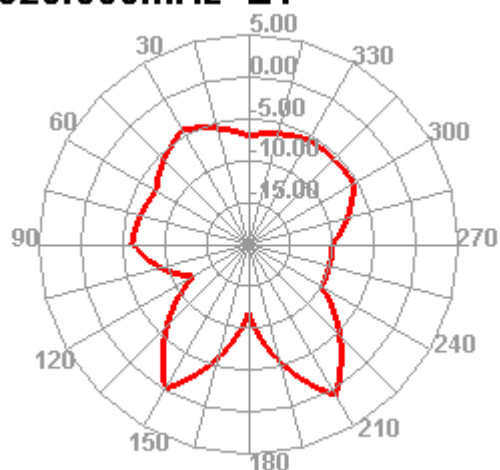
820.000MHz



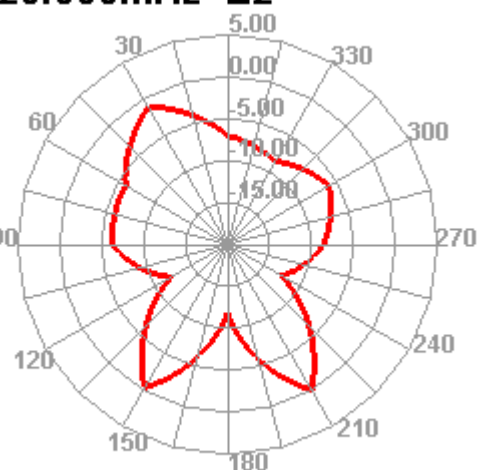
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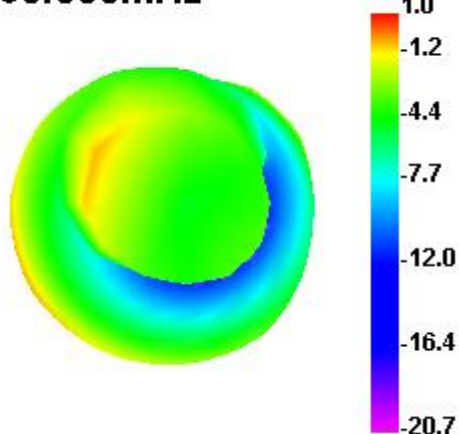
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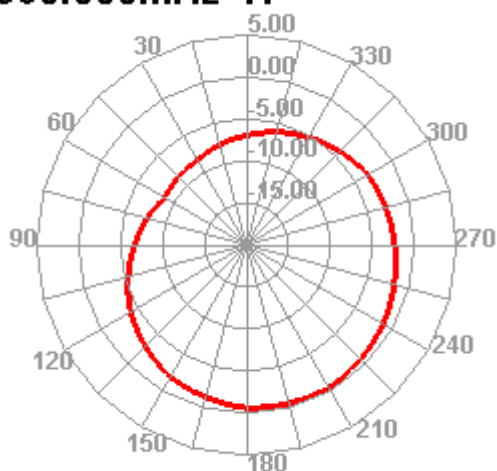
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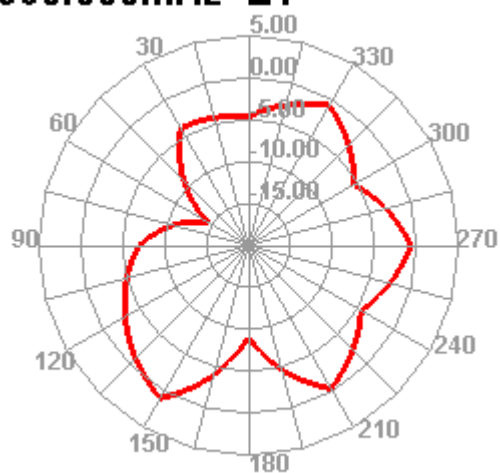
960.000MHz



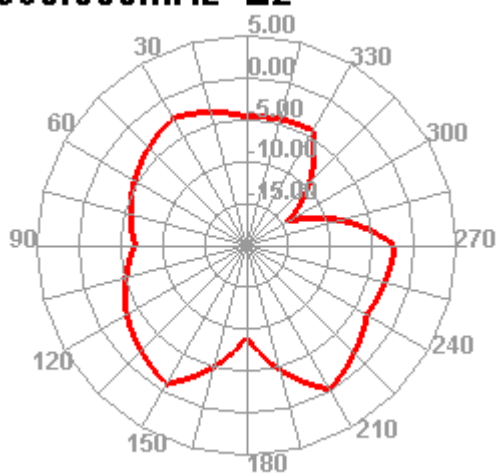
960.000MHz H



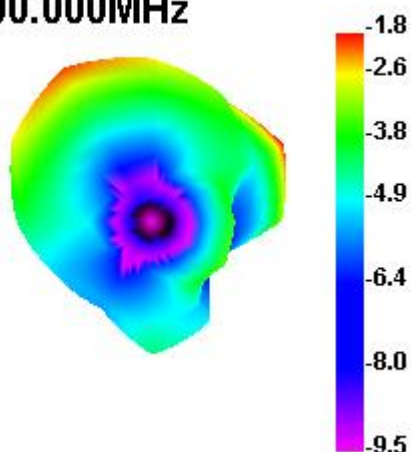
960.000MHz E1



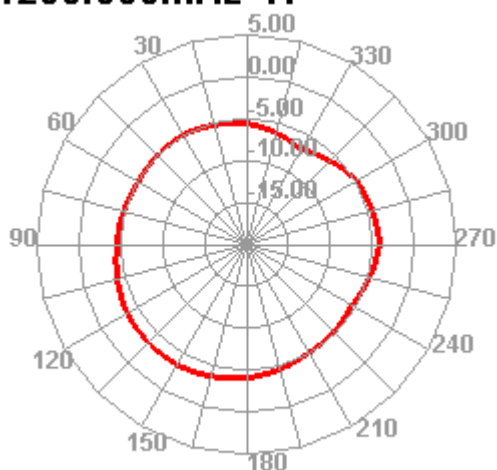
960.000MHz E2



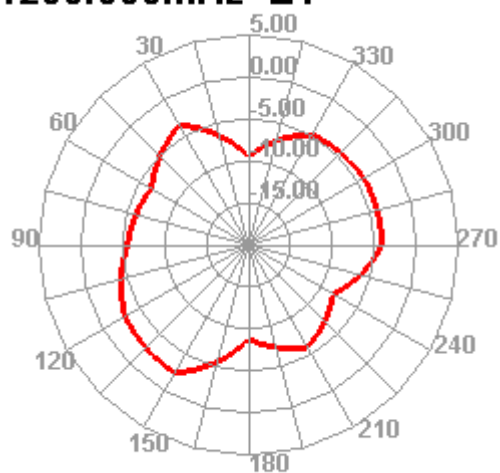
1200.000MHz



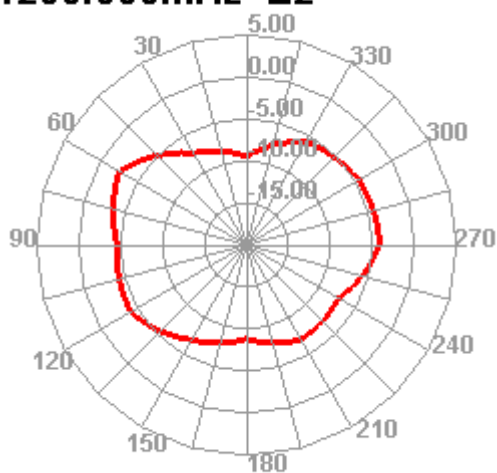
1200.000MHz H



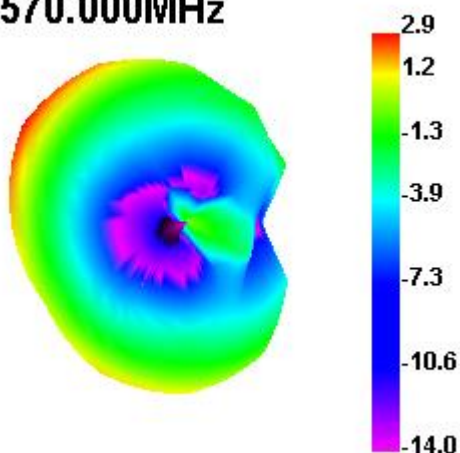
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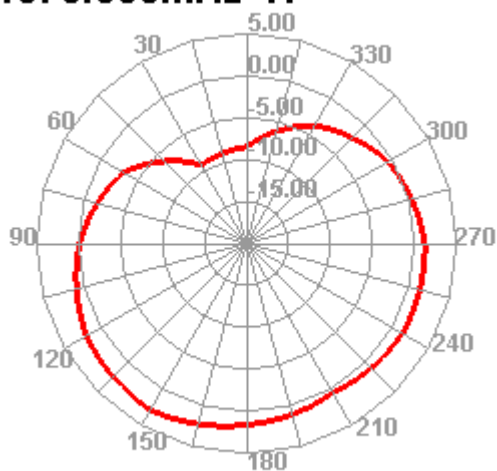
1200.000MHz E2



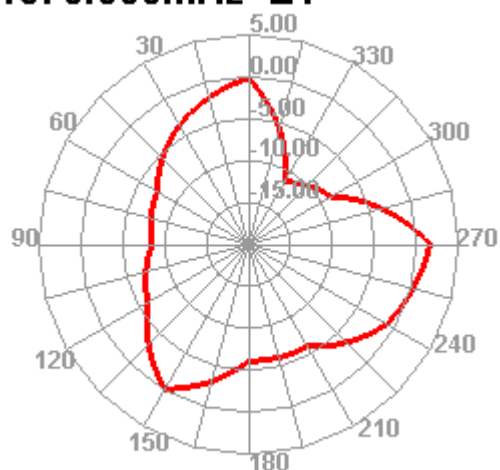
1570.000MHz



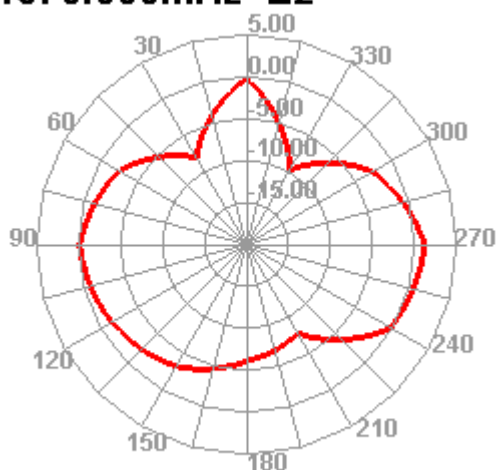
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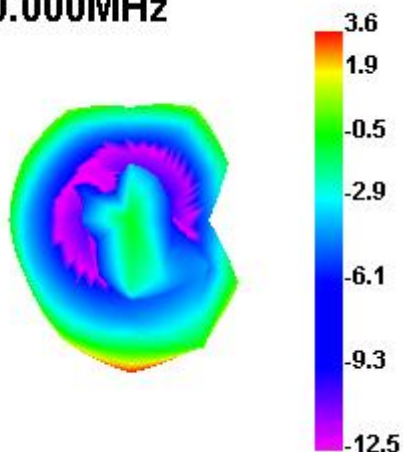
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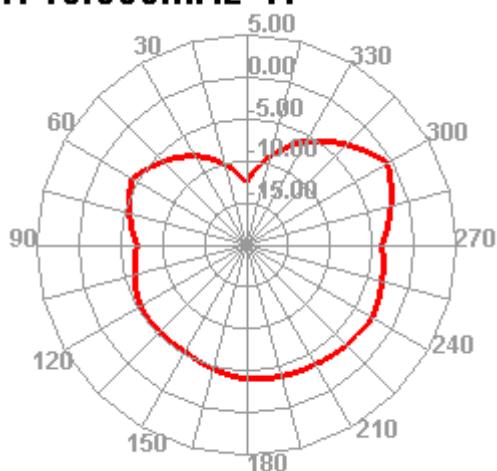
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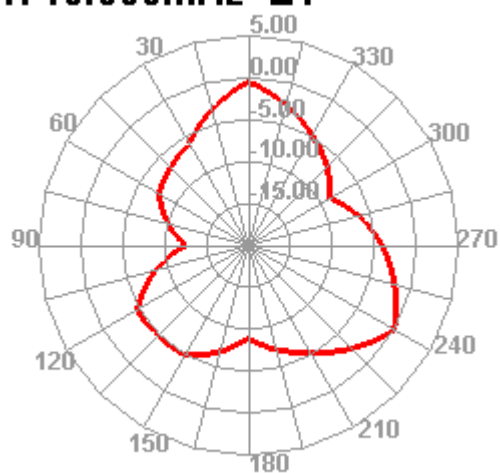
1710.000MHz



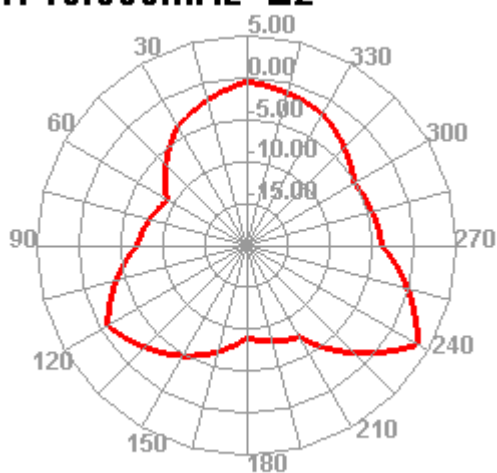
1710.000MHz H



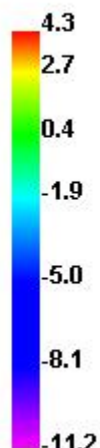
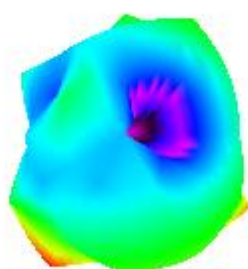
1710.000MHz E1



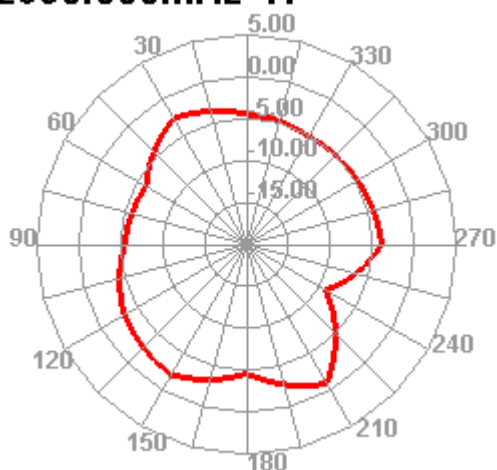
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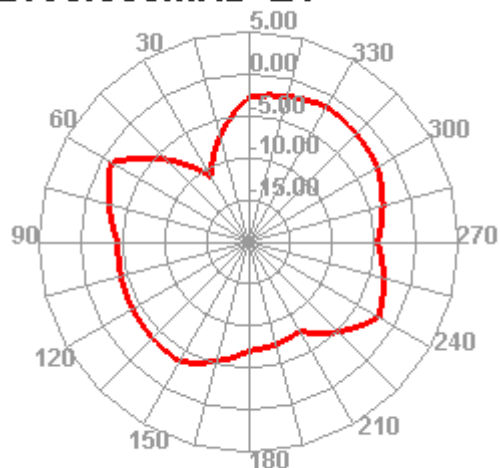
2690.000MHz



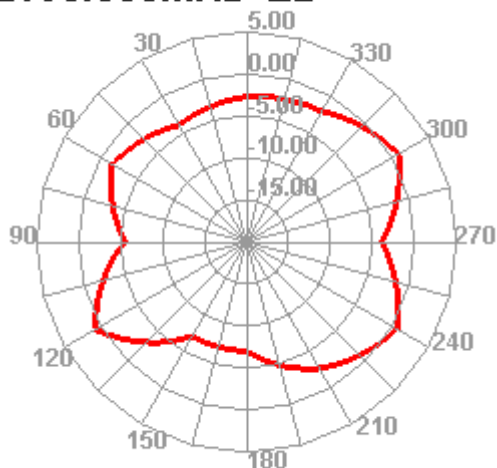
2690.000MHz H



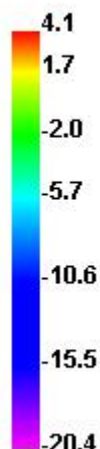
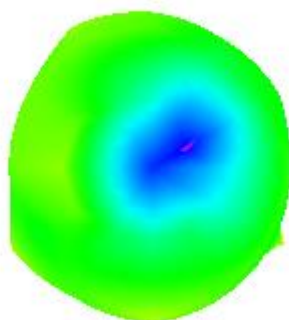
2690.000MHz E1



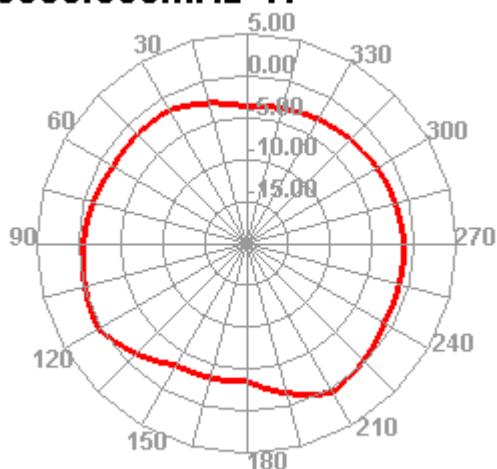
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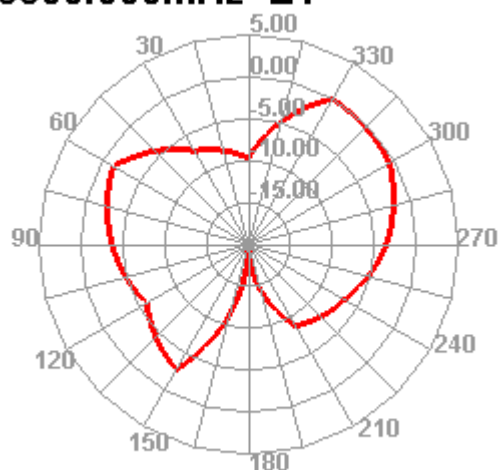
3300.000MHz



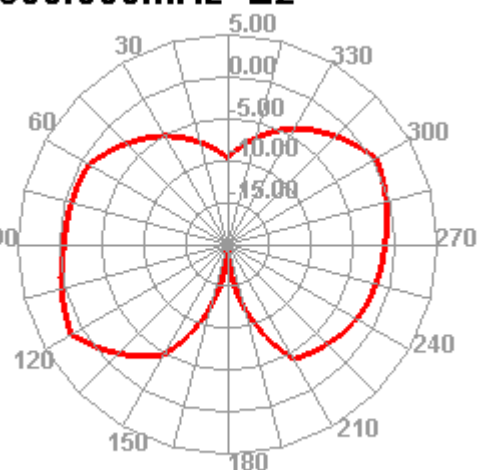
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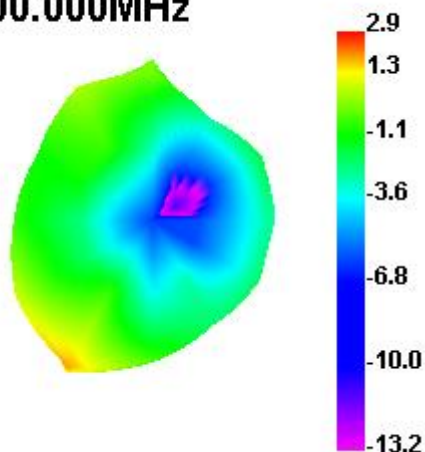
3300.000MHz E1



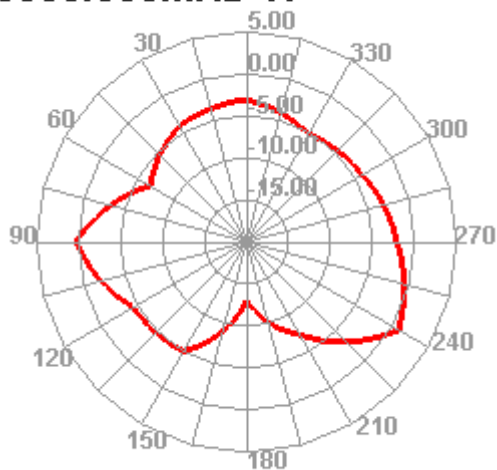
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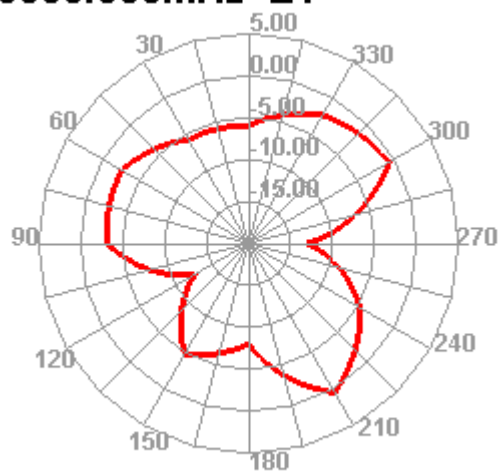
5000.000MHz



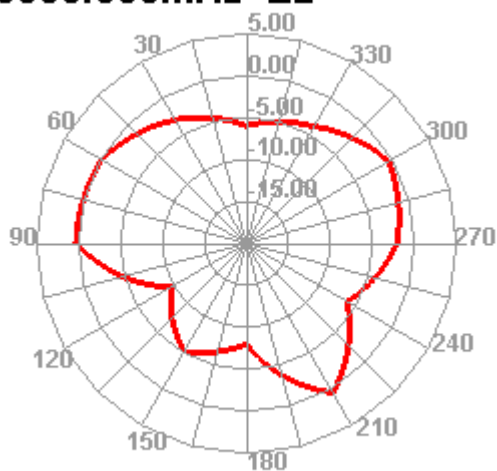
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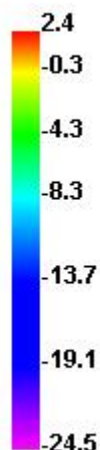
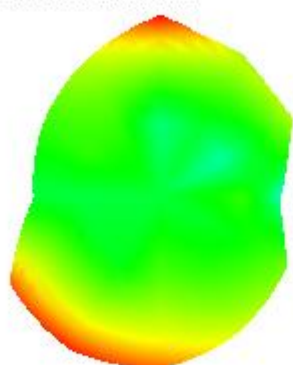
5000.000MHz E1



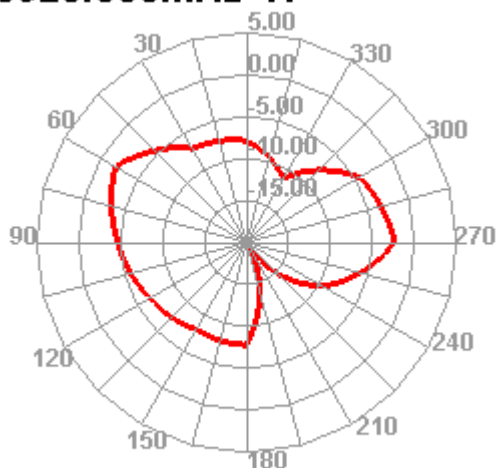
5000.000MHz E2



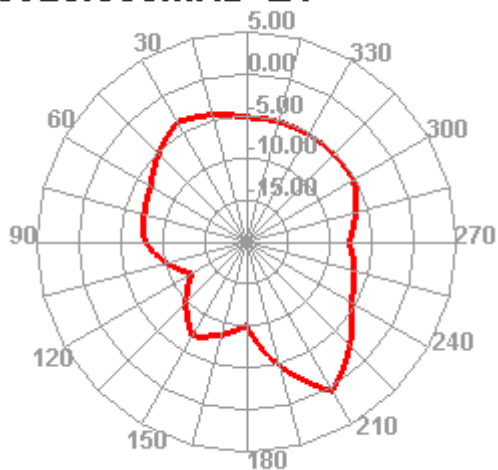
5920.000MHz



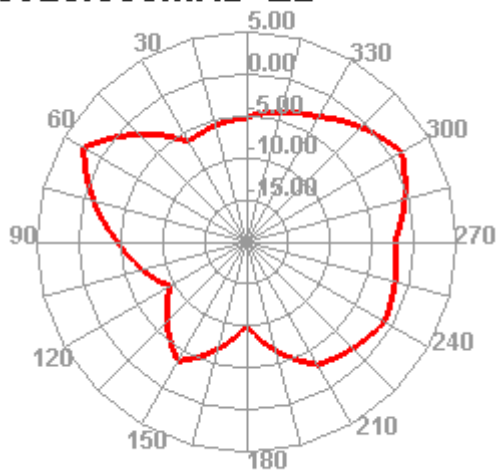
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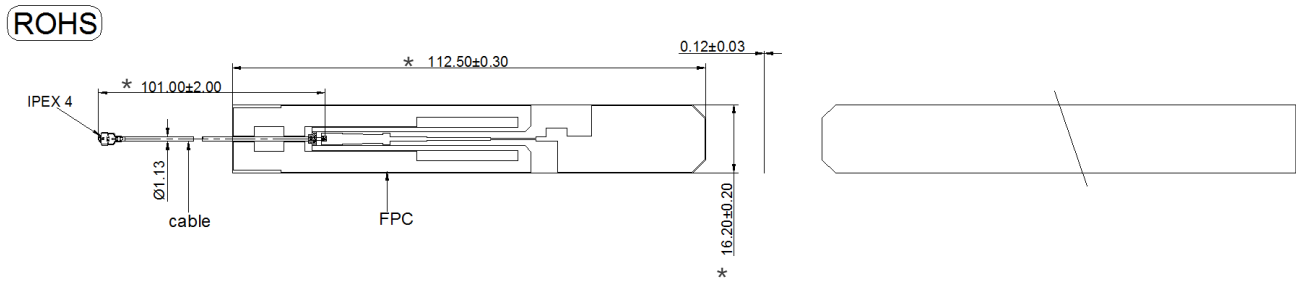
5920.000MHz E1



5920.000MHz E2



5 Product Size



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