



Advanced Technology & Communications

A2693_Antenna Report V1.2

2025.07.02

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公司简介

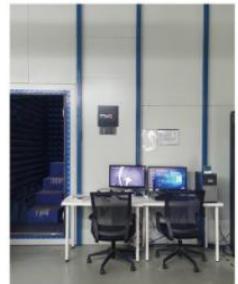
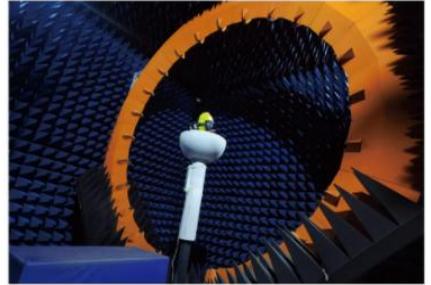
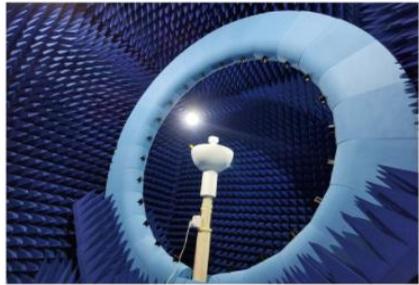
爱特恩科技（深圳）有限公司成立于2016年，公司位于深圳市，是一家专业的通讯电子产品配件的解决方案提供商和制造商。集天线研发、生产、销售于一体的高新科技企业。

公司主要从事与开发安防类、智能家居类的电子产品。目前拥有3座微波暗室、模拟人头手测试、网络分析仪等。

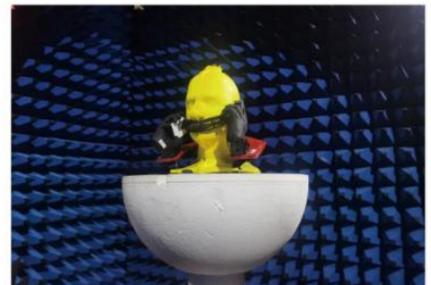
我们致力与客户建立长期稳定的商业合作关系，始终坚持“顾客至上，锐意进取”的经营理念，为我们的客户提供最具竞争力的价格，最好的质量和优质的服务。



专注品质 | 质量第一 | 共赢未来



拥有SATIMO原装实验室7M*5M*5M的24探头一座
 益麦3.5MX3.5MX3.5M的24探头一座
 频率范围均为400MHZ-8.5GHZ
 2/3/4/5G、
 WIFI A/B/G/N/AC/AX
 BT
 GPS
 NB-10T等有源测试，
 拥有模拟人头手测试设备



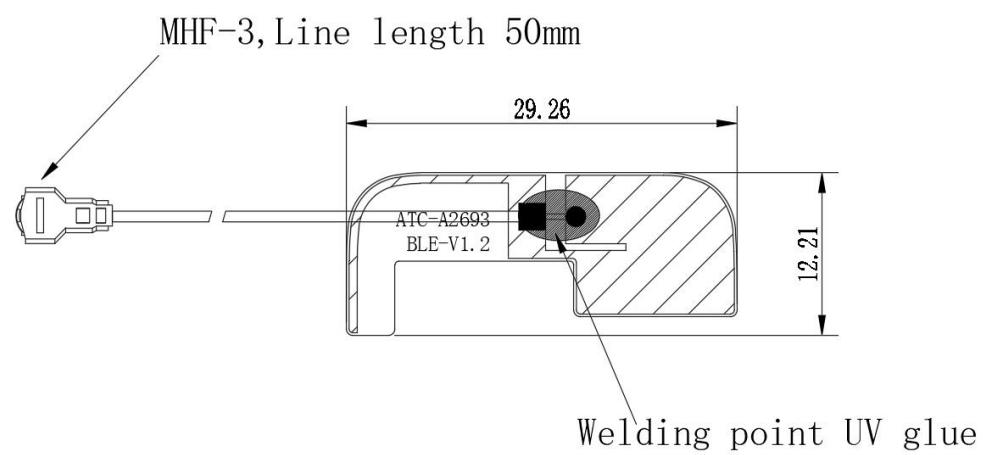
拥有AGILENT5071系列网络分析仪、AGILENT8960、RS CM W500、4438C等终端测试设备,提供天线性能测试。

Room 201,C Building Tangtou 1st Road, skyworth Innovation Valley of ShiYan Street,Bao'an District ShenZhen City, China



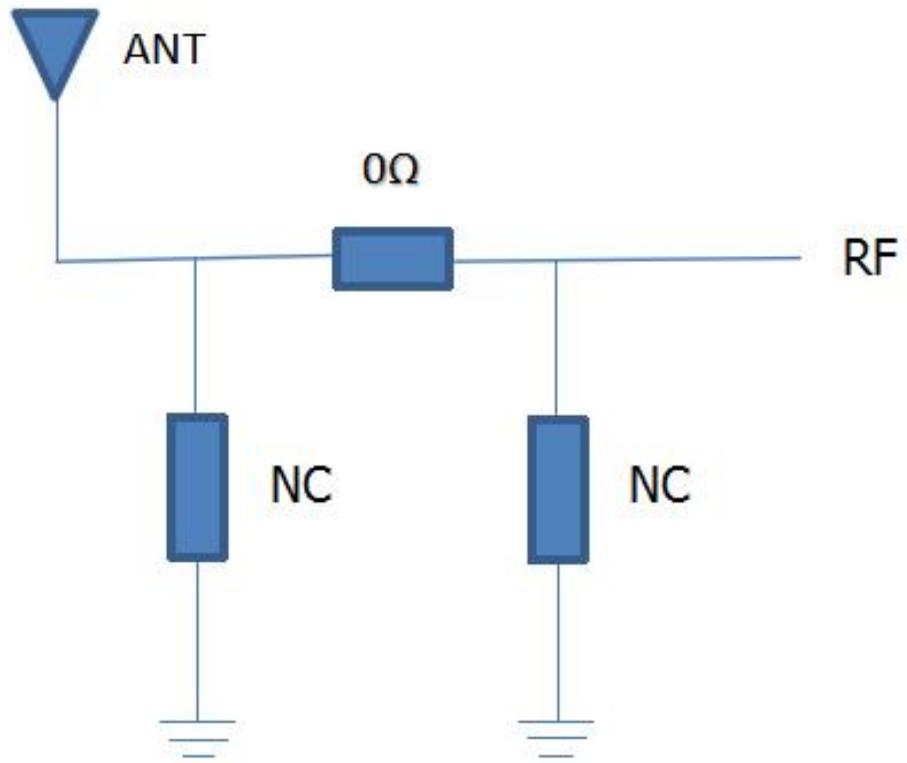
● A2693_Antenna information

- 1. Type of the antenna :FPC+CABLE
- 2. Placement of the antenna : as shown below
- 3. Coverage : 2400 ~ 2500MHz.

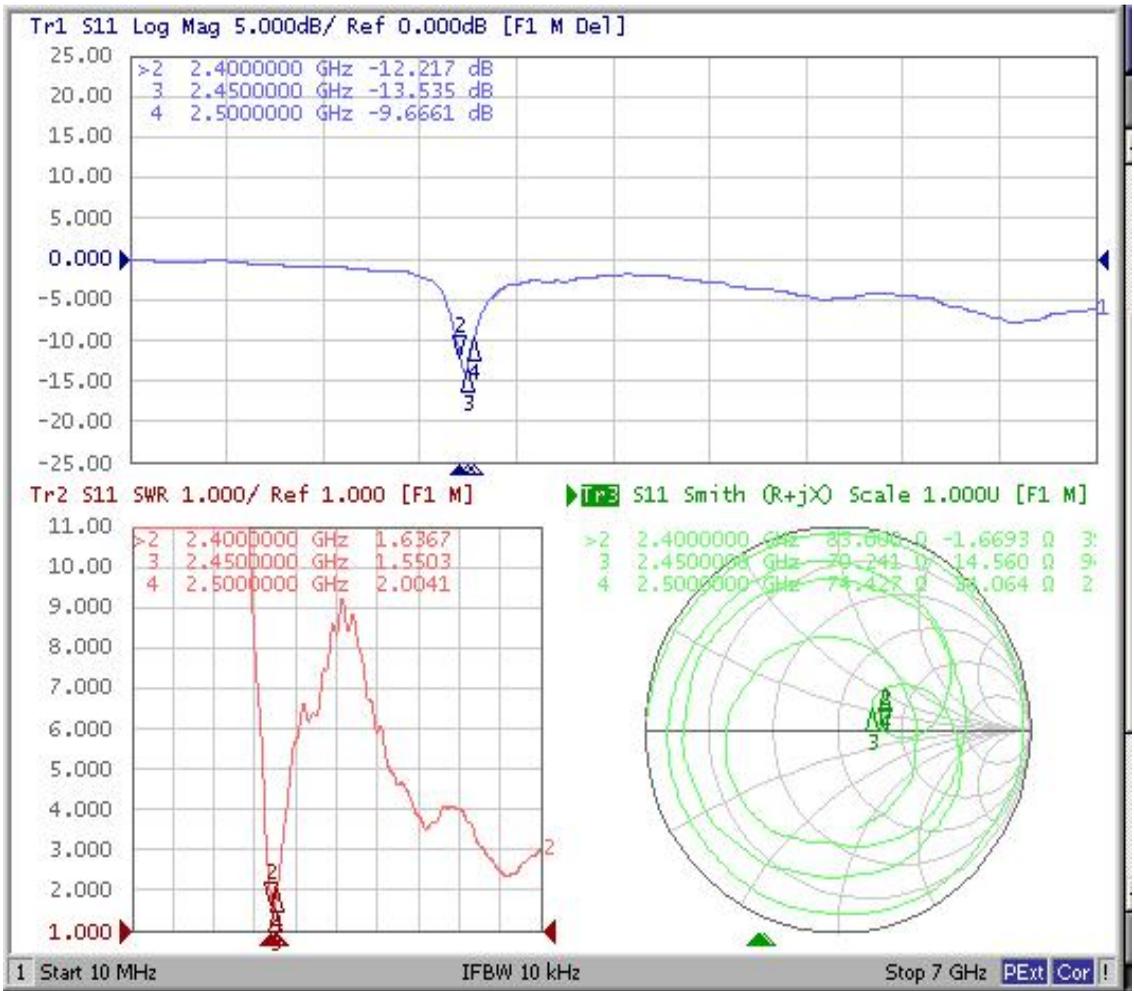


● A2693_Impedance Matching

- 1. No changes.



● A2693_S11/VSWR



● A2693 _Efficiency & Gain

1. Passive efficiency: about 30%.

(2.4G) Passive Test Results(无源测试结果)			
Frequency(MHz)	Efficiency(%)	Efficiency(dB)	Max Gain(dBi)
2400	29.10%	-5.36	-0.15
2410	29.87%	-5.25	0.05
2420	30.02%	-5.23	0.11
2430	30.11%	-5.21	0.00
2440	29.74%	-5.27	-0.23
2450	29.94%	-5.24	-0.34
2460	29.67%	-5.28	-0.44
2470	29.54%	-5.30	-0.42
2480	30.34%	-5.18	-0.11
2490	31.85%	-4.97	0.27
2500	32.28%	-4.91	0.43
AVG:	30.22%	-5.20	-0.08



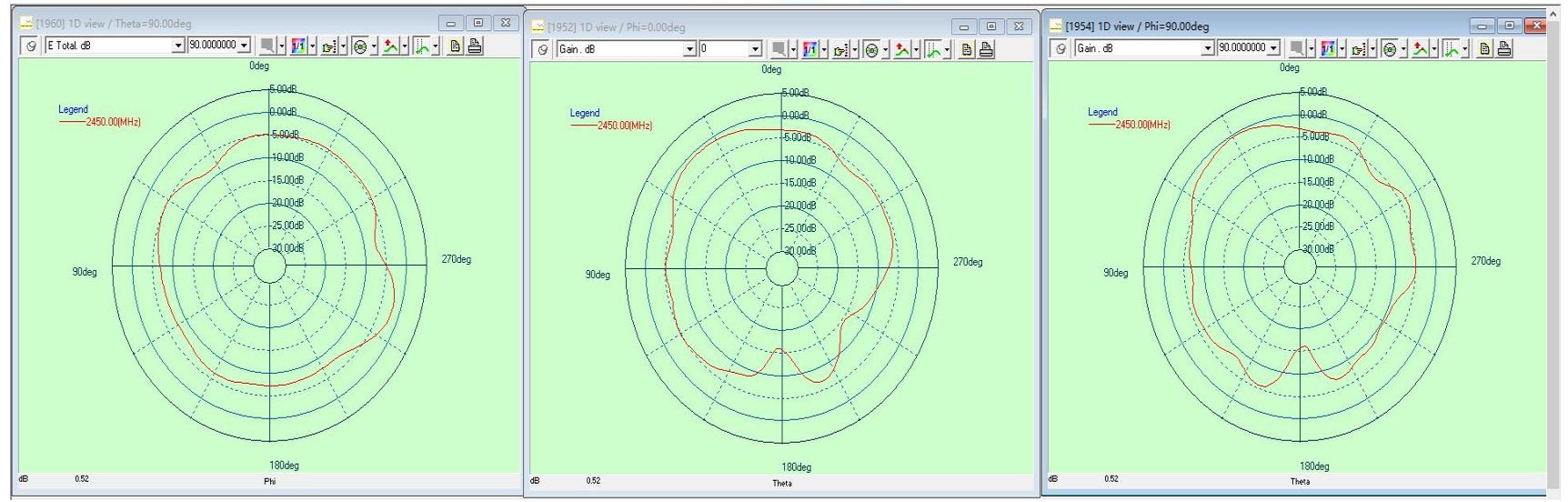
● A2693_2D Radiation Pattern

- 1. Azimuth Pattern H-Plane : "H", X-Y plane
- 2. Elevation Pattern E1, E2-Plane : "E1", "E2", X-Z plane(E1), Y-Z plane(E2)
- 3. It is a structure that supplements the distortion of the horizontal plane in the vertical plane and has a gentle sphere shape in three dimensions.

H

E1

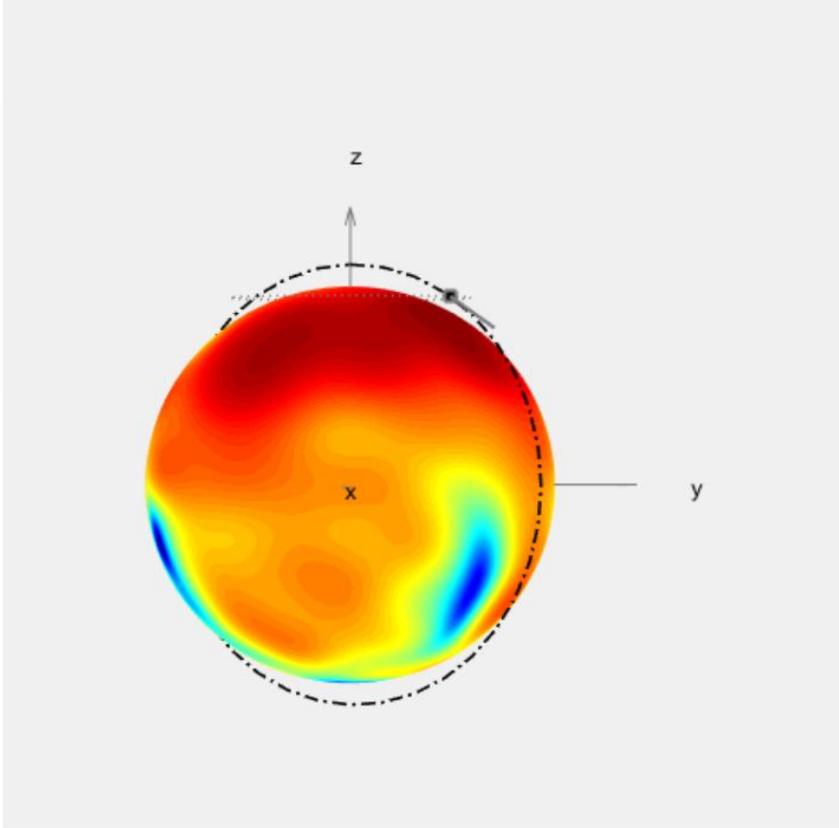
E2



● A2693 _ 3D Radiation Pattern

- 1. This 3D Radiation Pattern shows the response of each angle antenna gain on the sphere.
- 2. The objects corresponding to the X-Y-Z axes are shown in the left picture.

2450MHz



● A2693 _Antenna Summary

1. the antenna performance is basically up to standard.

*** Please let me know if there is a change in the device. And if have any questions, please communicate promptly***

Thank You!!