

Since 1993 专注于精密陶瓷技术研发与应用

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2025-2026

Ceramic Antenna 陶瓷定位天线



广东康荣高科新材料股份有限公司

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广东省名牌产品



广东省著名商标



微信公众号
Wechat official account

广东康荣高科新材料股份有限公司
KANGRONG HIGH-TECH NEW MATERIAL CO.,LTD

企业信念/ Enterprise faith

敬天理 致良知

Respect the heaven's principles, attain the inner conscience.

企业使命/ Enterprise mission

追求全体员工物质与精神两方面幸福的同时，以行业领先的精密陶瓷应用解决方案及配套服务，让世界更健康、更繁荣！

Seeking the substantial and spiritual happiness of all employees, and in the meantime make the world be more healthy and prosperous with industry-leading precision ceramic application solutions and supporting services!

企业愿景/ Enterprise goal

成为全球最完美的精密陶瓷应用解决方案提供商。

To become the world's most perfect provider of precision ceramic application solutions.

核心价值观/ Enterprise value

- 以客户为中心
Customer-centered
- 坚持持续创新
Persist in continuous innovation
- 坚持长期艰苦奋斗
Persist in long-term hard work and struggle
- 保持自我革命精神
Maintain the spirit of self-revolution



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康荣介绍 BRIEF INTRODUCTION

广东康荣高科新材料股份有限公司，原名佛山市康荣精细陶瓷有限公司，成立于1993年，是一家以精密陶瓷为核心，集研发、生产、销售、服务于一体的高新技术企业。康荣高科总部位于广东佛山，在广东肇庆、中山、湖南长沙、娄底、浙江宁波拥有六家专业制造基地或分公司。

KANGRONG HIGH-TECH NEW MATERIAL CO.,LTD., formerly known as Foshan Kangrong Fine Ceramics Co., LTD., was established in 1993. It is a high-tech enterprise with precision ceramics as its core, integrating R&D, production, sales and service. Kangrong Hi-Tech is headquartered in Foshan, Guangdong Province, and has six professional manufacturing bases or branches in Zhaoqing, Zhongshan, Guangdong Province, Changsha, Loudi, Hunan Province, and Ningbo, Zhejiang Province.



四会市康荣新材料有限公司
Sihui Kangrong New Material Co.,Ltd



广东康荣高科新材料股份有限公司
Guangdong Kangrong High-tech New Material co.,Ltd



长沙市康荣新材料有限公司
Changsha Kangrong New Material co.,Ltd



新化县欧迪特种陶瓷有限公司
Xinhua County Oudi special Ceramics Co.,Ltd.



慈溪市康荣电器有限公司
Cixi Kangrong Electric, Co.,Ltd

目前主要生产陶瓷新材料、精密陶瓷、塑化陶瓷、功能陶瓷、金属化陶瓷、先进复合材料、精密陶瓷及结构件、压电陶瓷、电光源陶瓷、电子电器陶瓷及配件；汽车配件，锂电池配件；LED封装新材料基板，5G陶瓷滤波器粉体，智能灯座及灯泡，电光源灯头，灯座，光源，灯具，灯饰配件（光源模组，照明用光源配件，照明电器及配件）；生物医疗照明；植物生长照明灯座；氧化锆材料及结构件等产品，广泛应用于照明灯饰灯具行业、电光源行业、电子电器行业、节能环保行业，新能源汽车行业、礼品行业、通讯、机械、冶金、石油化工、环保等国民经济建设、基础产业及国防建设等领域。

At present, we mainly produce new ceramic materials, precision ceramics, plasticized ceramics, functional ceramics, metallized ceramics, advanced composite materials, precision ceramics and structural components, piezoelectric ceramics, electric light source ceramics, electronic and electrical ceramics and accessories. Automobile parts, lithium battery parts New LED packaging material substrates, 5G ceramic filter powder, smart lamp holders and bulbs, electric light source lamp heads, lamp holders, light sources, lamps, lighting accessories (light source modules, lighting source accessories for illumination, lighting electrical appliances and accessories); Biomedical lighting Plant growth lighting socket Zirconia materials and structural components and other products are widely used in the lighting and decoration industry, electric light source industry, electronic and electrical industry, energy conservation and environmental protection industry, new energy vehicle industry, gift industry, communication, machinery, metallurgy, petrochemicals, environmental protection and other fields of national economic construction, basic industries and national defense construction.

产品分别获得UL、VDE、ENEC、3C、CQC等认证，数十个产品获得实用新型专利和外观专利，拥有多项发明专利，于2001年取得ISO9001:2000质量管理体系认证，2007年取得ISO14001:2004环境管理体系认证，2019年取得IATF16949:2016汽车管理体系认证。2008年入选南海区“雄鹰”企业、2010年获得“广东省名牌产品”称号、2011年被认定为“广东省著名商标”，2014年被认定为南海区“电光源陶瓷材料研究中心”，2016年被认定为广东省“高新技术企业”并延续至今，2017年被认定为全国半导体照明产业知名品牌创建示范区“骨干企业”，2018年获得佛山市电光源陶瓷材料工程技术研究中心称号，2019年度被公示为“广东省守合同重信用企业”，2022年被评为佛山市“专精特新”企业，同年获得“南海制造业全国隐形冠军企业”荣誉称号。

The products have respectively obtained certifications such as UL, VDE, ENEC, 3C, and CQC. Dozens of products have been granted utility model patents and design patents, and it holds multiple invention patents. In 2001, it obtained the ISO9001:2000 quality management system certification, and in 2007, it obtained the ISO14001:2004 environmental management system certification. In 2019, it obtained the IATF16949:2016 automotive management system certification. In 2008, it was selected as a "Eagle" enterprise in Nanhai District. In 2010, it was awarded the title of "Famous Product of Guangdong Province". In 2011, it was recognized as a "Famous Trademark of Guangdong Province". In 2014, it was designated as the "Research Center for Electric Light Source Ceramic Materials" of Nanhai District. In 2016, it was recognized as a "High-tech Enterprise of Guangdong Province" and has continued to do so until now. In 2017, it was recognized as a "Key Enterprise" in the National Semiconductor Lighting Industry Well-known Brand Creation Demonstration Zone. In 2018, it was awarded the title of Foshan Electric Light Source Ceramic Materials Engineering Technology Research Center. In 2019, it was publicly announced as a "Guangdong Province Contract-abiding and Creditworthy Enterprise". In 2022, it was rated as a "Specialized, Refined, Unique and Innovative Enterprise" in Foshan City. In the same year, it was awarded the honorary title of "National Hidden Champion Enterprise in Nanhai Manufacturing Industry".



康荣高科80%产品出口欧美、日本等地，是飞利浦、欧司朗、宜家家居、EGLO、GE、BJB、TUTCO、EGO、佛山照明、雷士照明、欧普照明、阳光照明、西顿照明、嘉美照明等国内外知名品牌企业的战略合作伙伴；也是VISHAY、国巨、厚声、百亨、双羽、先正等知名电子元器件企业发的多年合作伙伴。

80% of Kangrong High-Tech's products are exported to Europe, America, Japan and other places. It is a strategic partner of well-known domestic and foreign brand enterprises such as Philips, Osram, IKEA, EGLO, GE, BJB, TUTCO, EGO, Foshan Lighting, NVC Lighting, OPP Lighting, Sunlight Lighting, Seton Lighting and Jia Mei Lighting. It is also a long-term partner of well-known electronic component enterprises such as VISHAY, Yageo, Housheng, Baiheng, Shuangyu, and Xianzheng.

康荣高科秉承“敬天理、致良知”的企业信念，在经营活动中持续追求人与自然和谐发展，在经营活动中持续节约资源、减少浪费，向社会提供安全、健康、环保的产品及活动。

Kangrong High-Tech adheres to the corporate belief of "Revering the natural order and pursuing the good conscience", and continuously pursues the harmonious development of human and nature in its business activities. It also continuously saves resources and reduces waste in its business activities, providing safe, healthy and environmentally friendly products and activities to the society.

生产设备 / PRODUCTION EQUIPMENT



喷雾塔
Spray tower



回转烧结炉
Rotary sintering furnace



网带烧结炉
Mesh belt sintering furnace



干压车间
Dry pressing workshop

实验室 / Laboratory



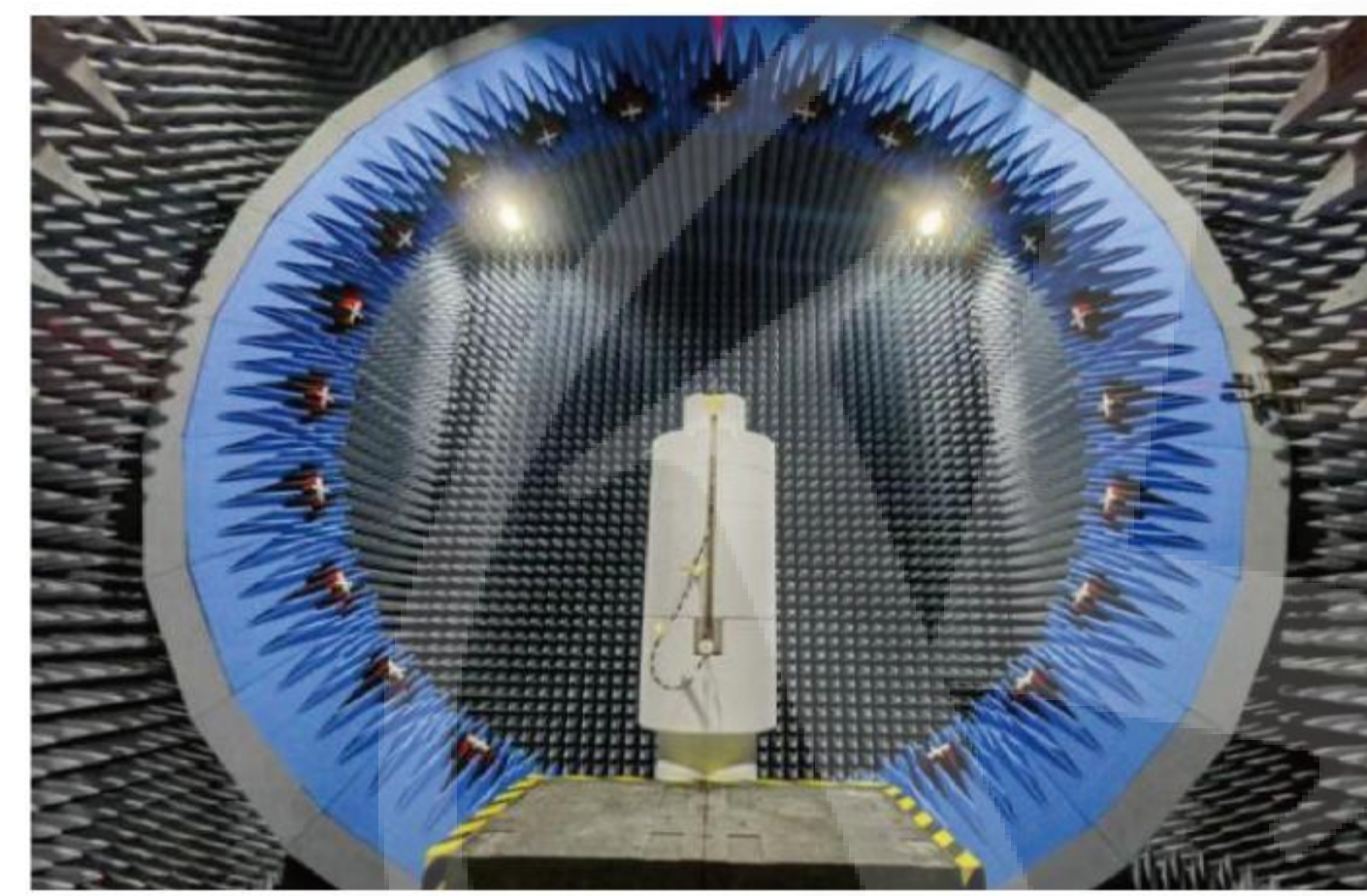
材料实验室
Materials laboratory



电性能测试实验室
Electrical performance testing laboratory



物理性能测试实验室
Physical performance testing laboratory

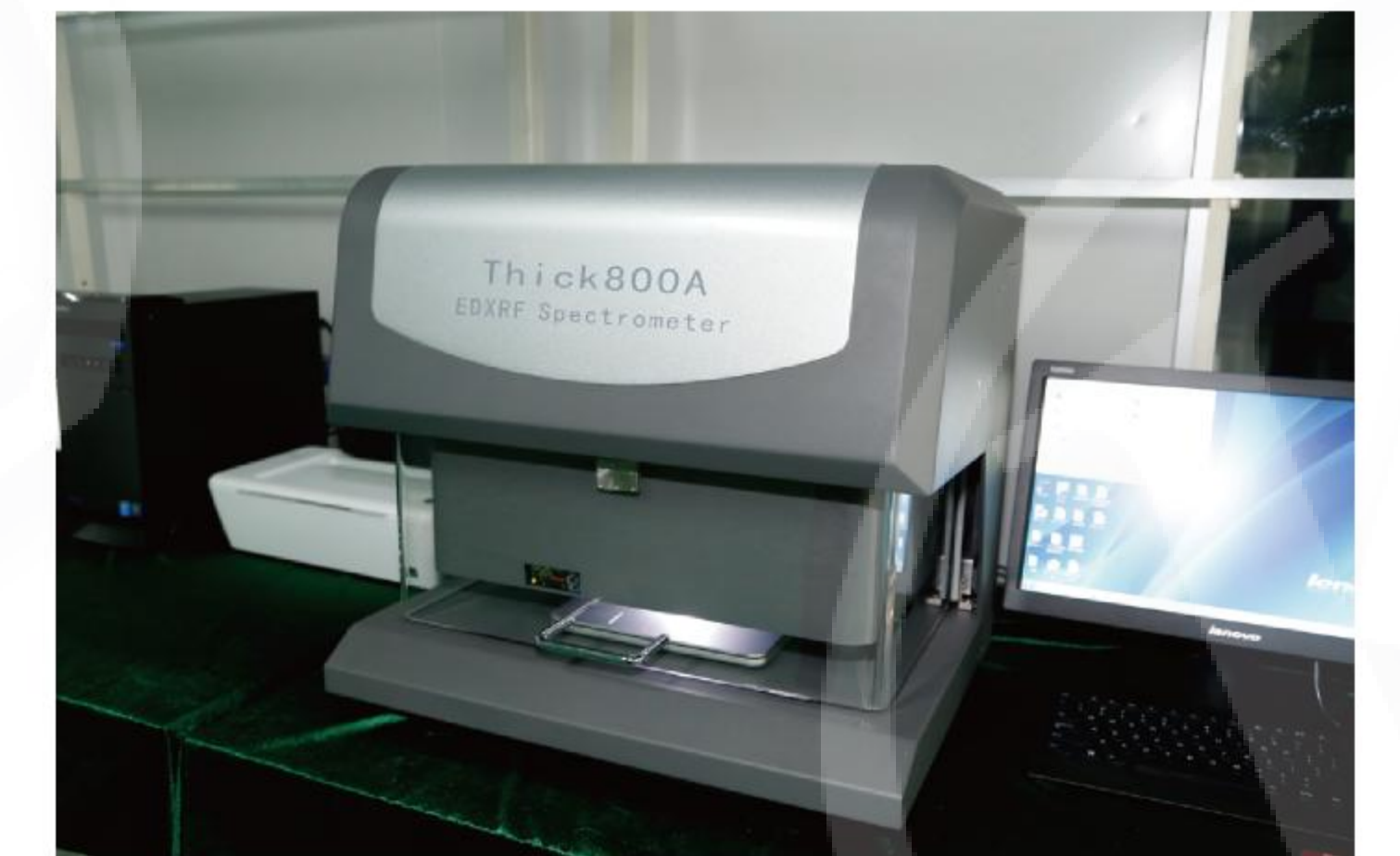


暗室实验室
Darkroom laboratory

检测设备 / TEST EQUIPMENT



网络分析仪
Network analyzer



镀层测厚仪
Coating thickness equipment



粉体特性和含水率测试设备
Powder performance and moisture content testing equipment



激光粒度分布仪
Laser particle size analyzer



ROHS测试仪
ROHS Tester



盐雾测试仪
Salt spray tester



耐压测试仪
Withstand voltage tester

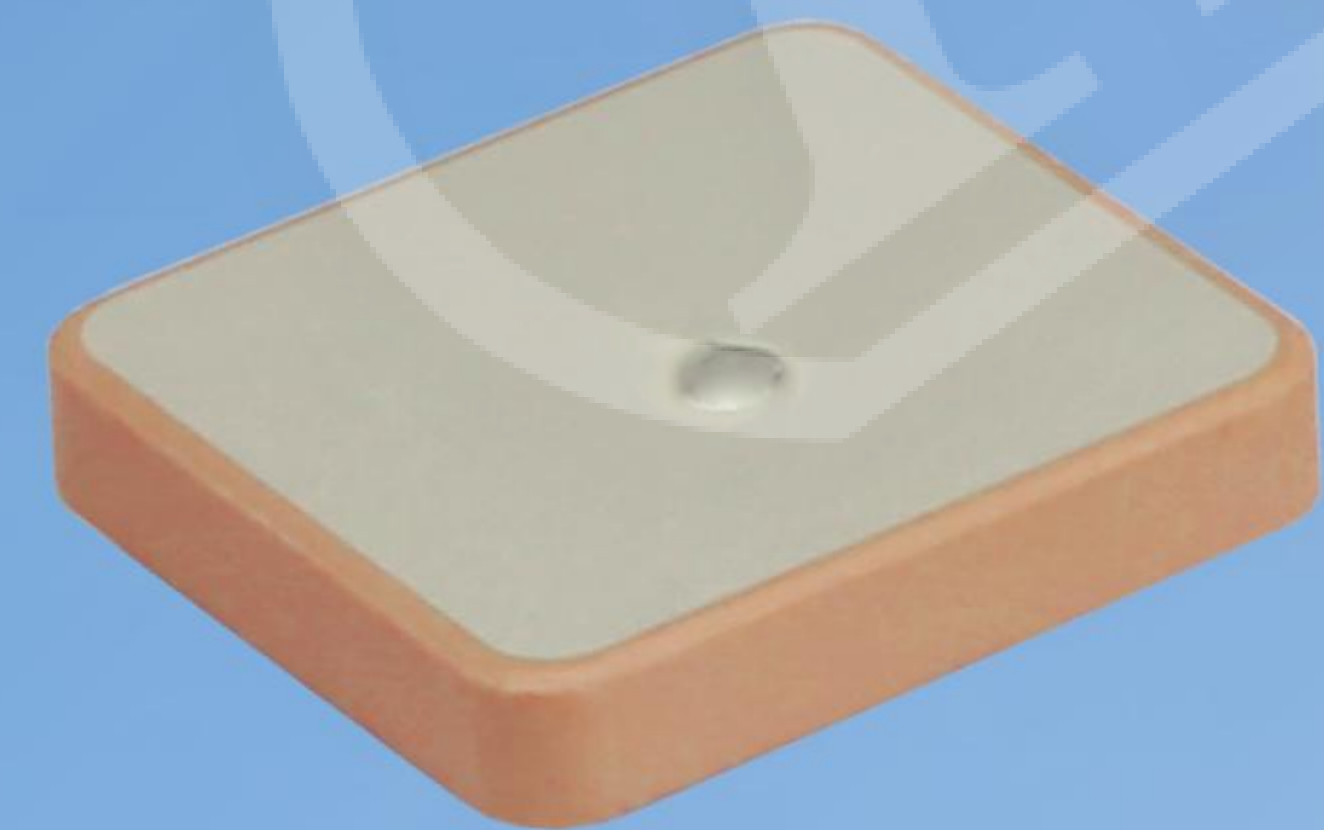
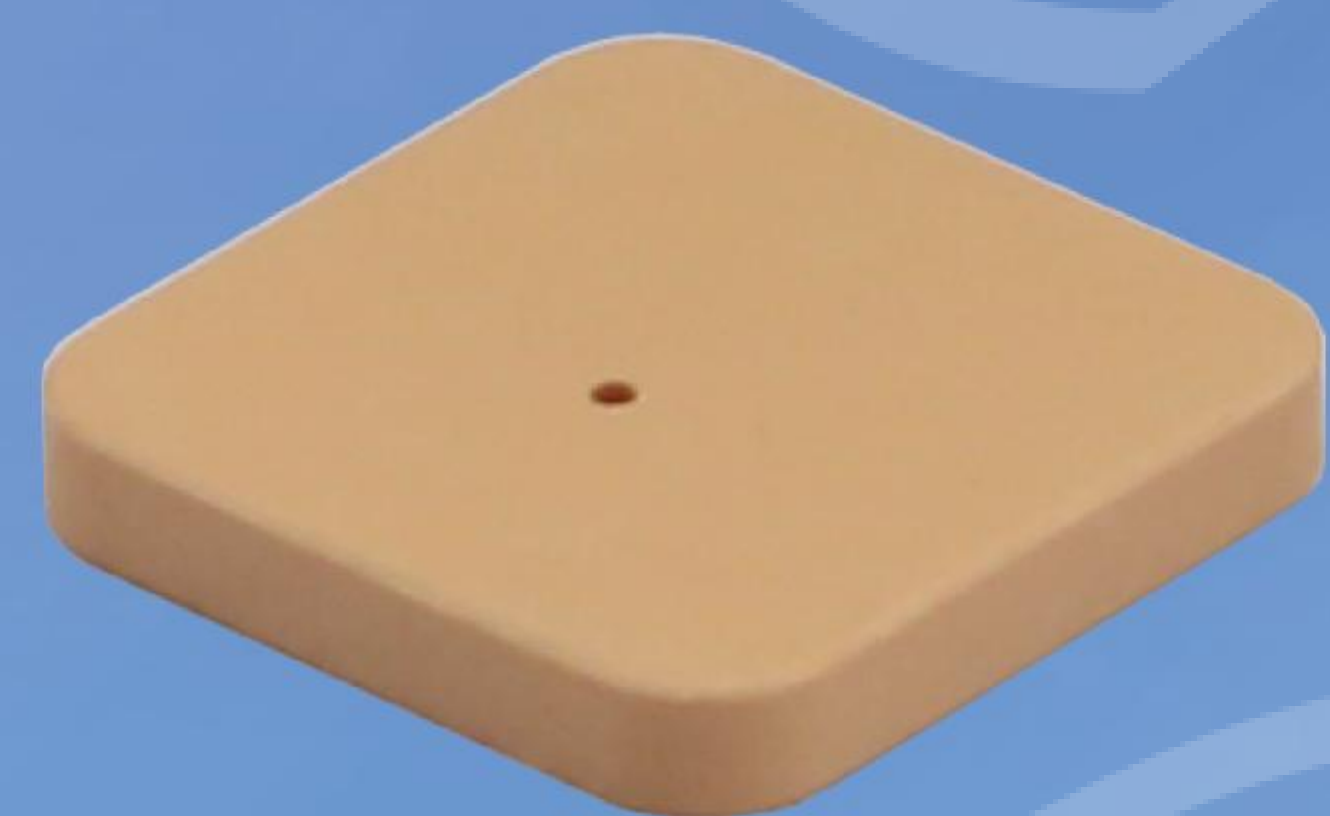
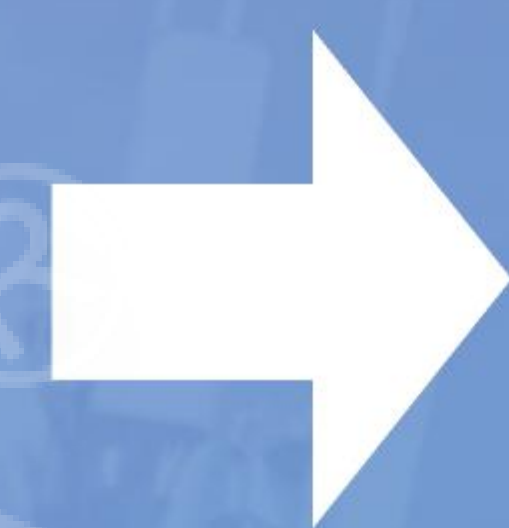


绝缘电阻测试仪
Insulation resistance tester



恒温恒湿试验箱
Constant temperature and humidity test chamber

产品应用 / Product application



陶瓷块客户端应用场景：

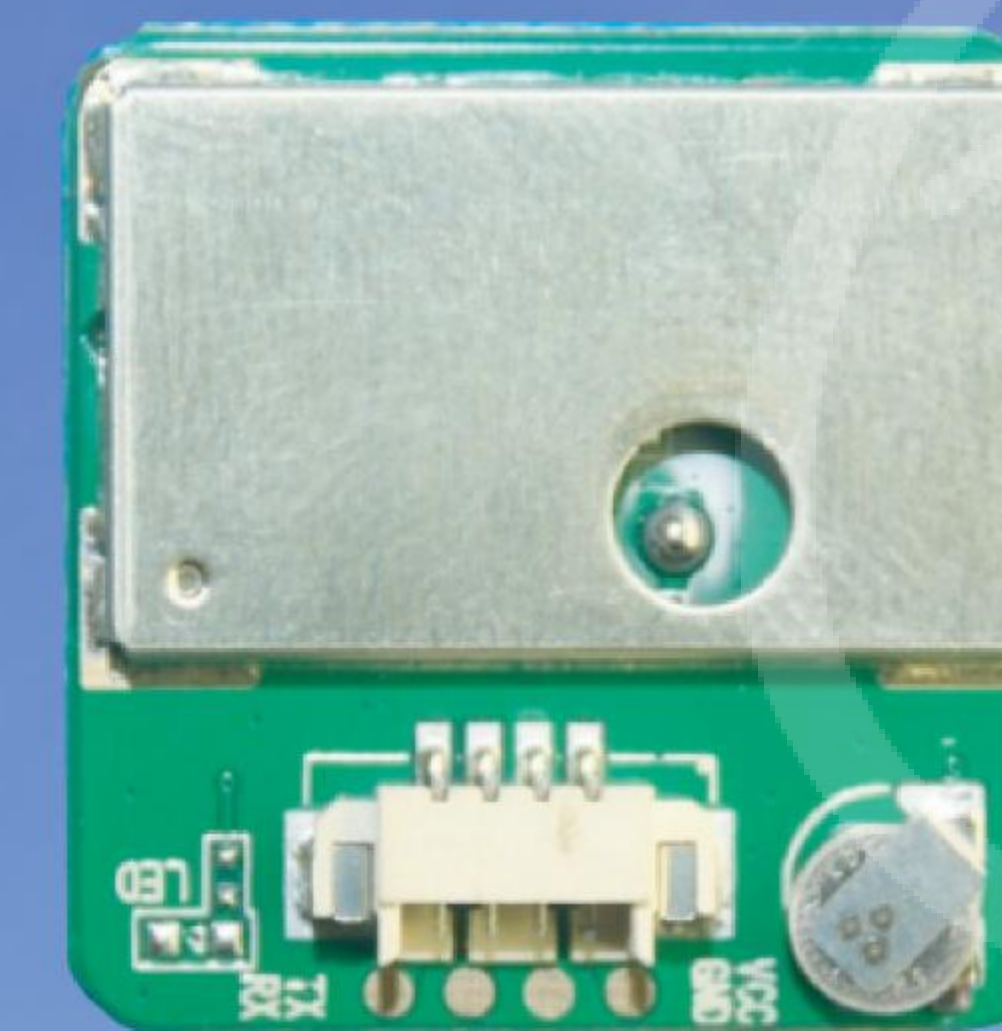
陶瓷块经客户印银、焊接PIN后，即为陶瓷天线，可用于接收GPS、BDS、GLONASS、GALILEO、QZSS系统频段的右旋圆极化卫星信号，具有体积小、稳定性高、介电一致性好等特点。（陶瓷块尺寸、厚度可订制）

Ceramic block client application scenarios:

After the ceramic block is printed with silver by the customer and pins are welded, it becomes a ceramic antenna, which can be used to receive right-rotating circularly polarized satellite signals in the frequency bands of GPS, BDS, GLONASS, and GALILEO/QZSS systems. It features small size, high stability, and good dielectric consistency.

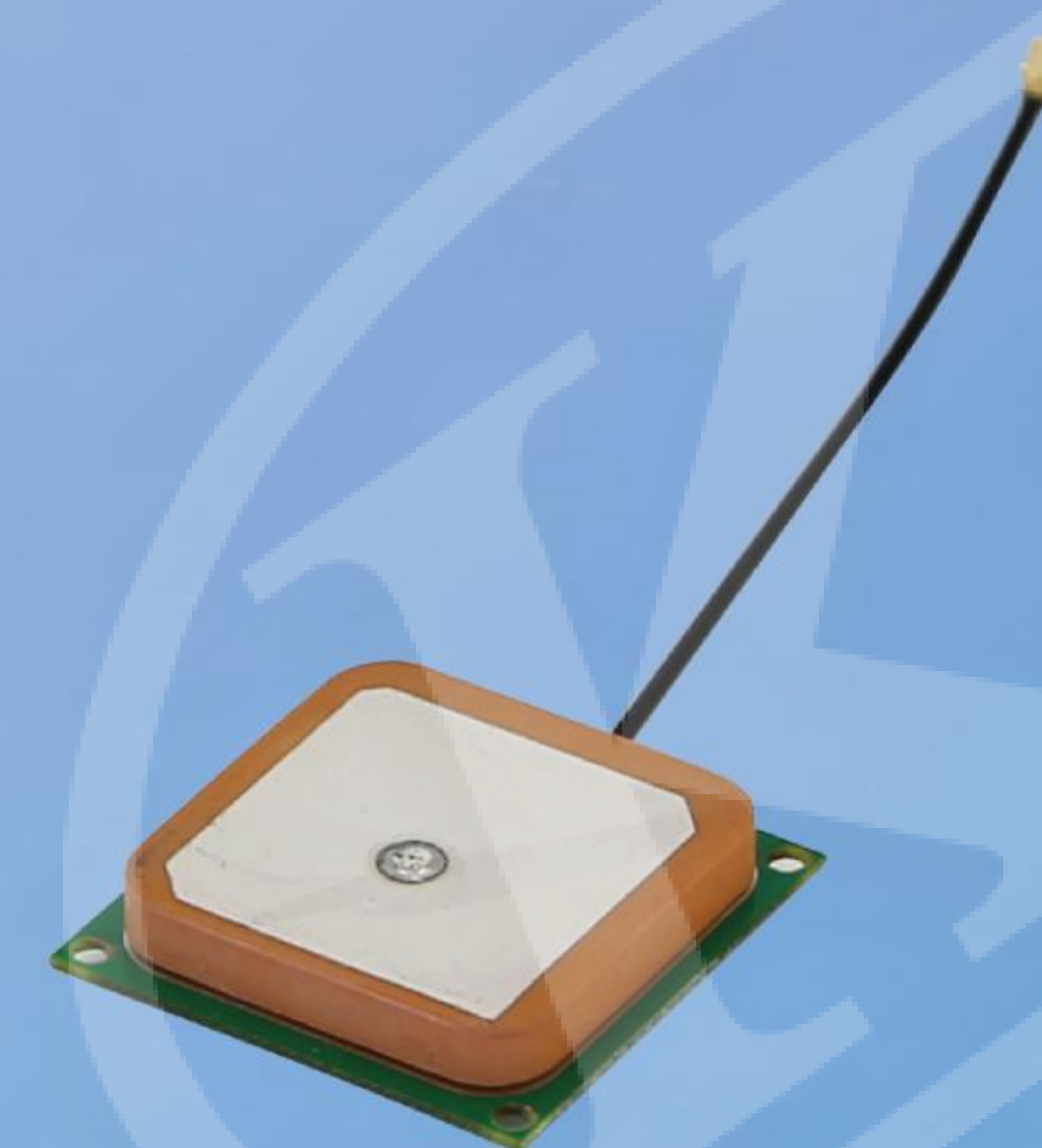
陶瓷天线客户端应用场景：

陶瓷天线经客户焊接于GPS模块中，可用于GPS模块+天线一体化，通过解码芯片，NMEA0183标准协议、实现RTC记忆电池、TTL输出、RS232、RS485、4G通讯等功能，广泛应用于无人机、测量仪、定位飞控、车载导航等。（陶瓷天线支持客户来样订制）



Application scenarios of ceramic antenna client:

The ceramic antenna is welded into the GPS module by the customer and can be used for the integration of GPS module and antenna. Through the decoding chip and the NMEA0183 standard protocol, it realizes functions such as RTC memory battery, TTL output, RS232, RS485, and 4G communication. It is widely used in unmanned aerial vehicles, measuring instruments, positioning flight control, vehicle navigation, etc.



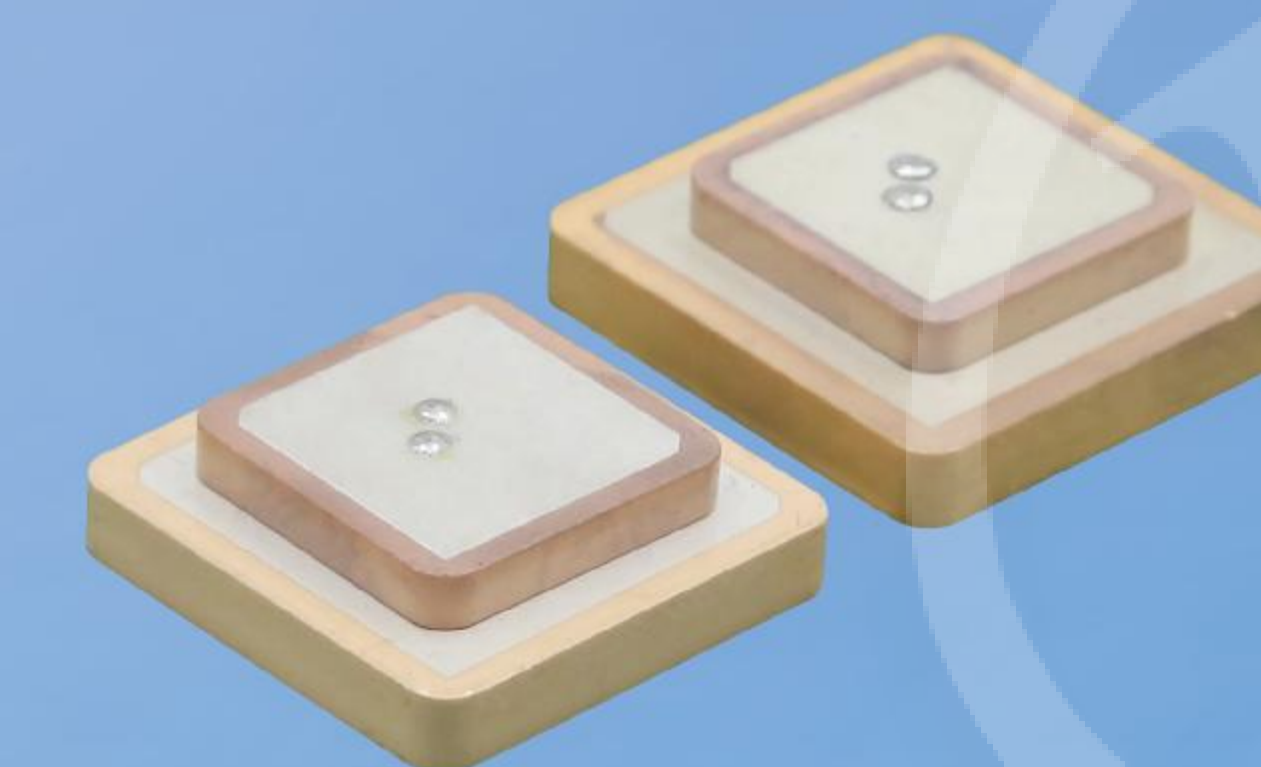
陶瓷天线客户端应用场景：

陶瓷天线经客户焊接放大电路中，广泛接收卫星信号，用于航空、航海、通信、人员跟踪、消费娱乐、测绘、授时、车辆监控管理、汽车导航与信息服务等领域提供高精度服务。

（陶瓷天线可按客户来样订制）

Application scenarios of ceramic antenna:

The ceramic antenna is welded into the GPS module by the customer and can be used for the integration of GPS module and antenna. Through the decoding chip and the NMEA0183 standard protocol, it realizes functions such as RTC memory battery, TTL output, RS232, RS485, and 4G communication. It is widely used in unmanned aerial vehicles, measuring instruments, positioning flight control, vehicle navigation, etc.



高精度叠层陶瓷天线应用场景：

米级以下定位，具备稳定的相位中心，降低测试误差，对仰角信号接收效果明显，用于驾考，自动无人驾驶，工业测绘，航海定位，农机精准作业等高精度应用场合。

（陶瓷天线可按客户来样订制）

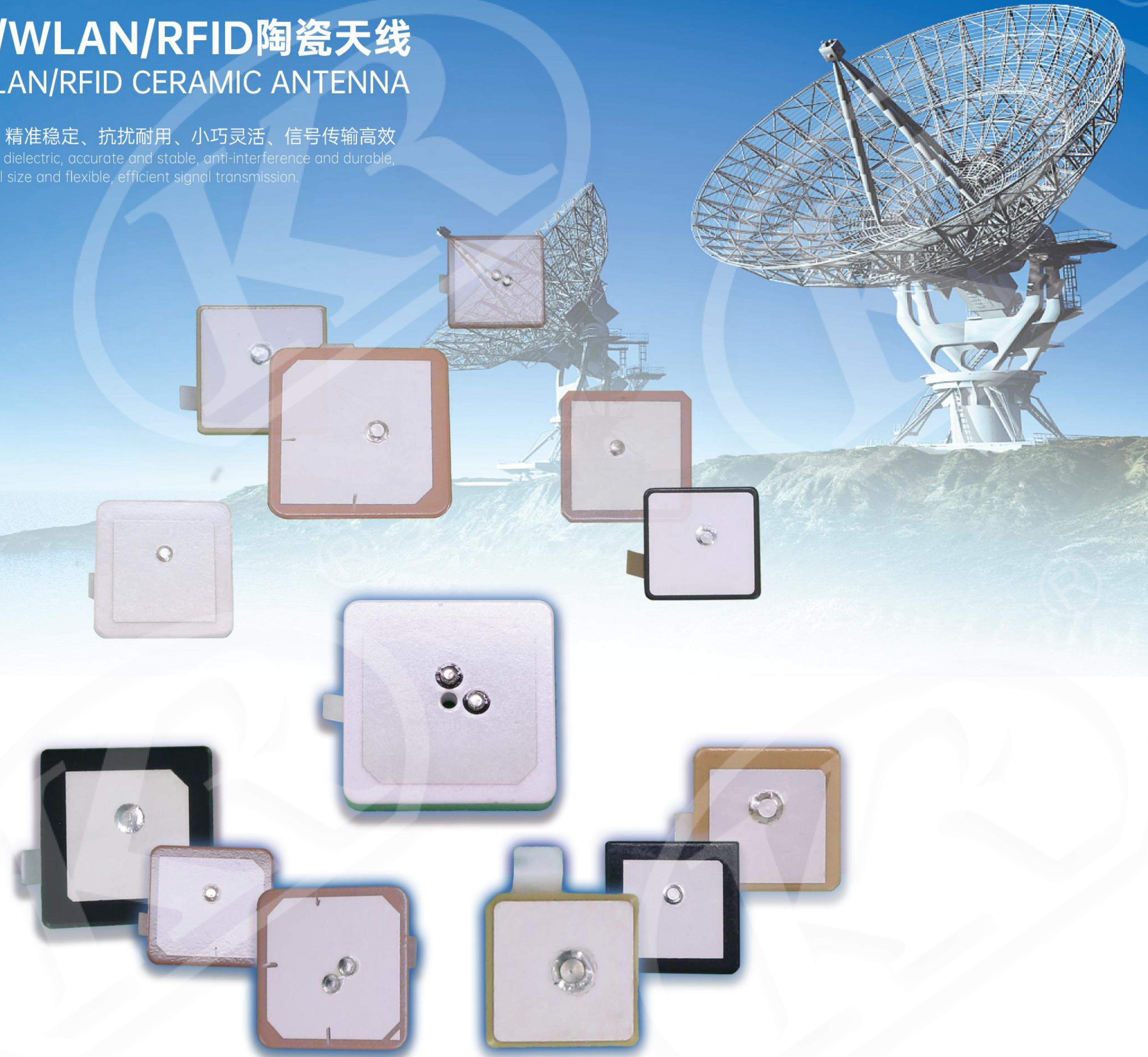
Application scenarios of high-precision laminated ceramic antennas:

With positioning below the meter level, it features a stable phase center, reduces test errors, and has a significant reception effect on elevation angle signals. It is used in high-precision application scenarios such as driving tests, autonomous unmanned driving, industrial mapping, Marine positioning, and precise agricultural machinery operations.

GNSS/WLAN/RFID陶瓷天线

GNSS/WLAN/RFID CERAMIC ANTENNA

优点：高介电、精准稳定、抗扰耐用、小巧灵活、信号传输高效
 Advantages: High dielectric, accurate and stable, anti-interference and durable, small size and flexible, efficient signal transmission.



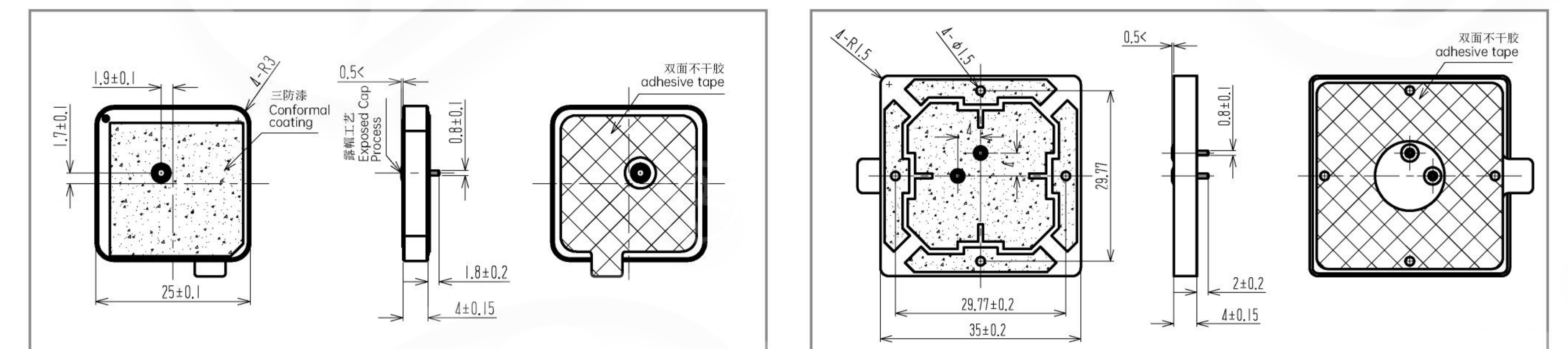
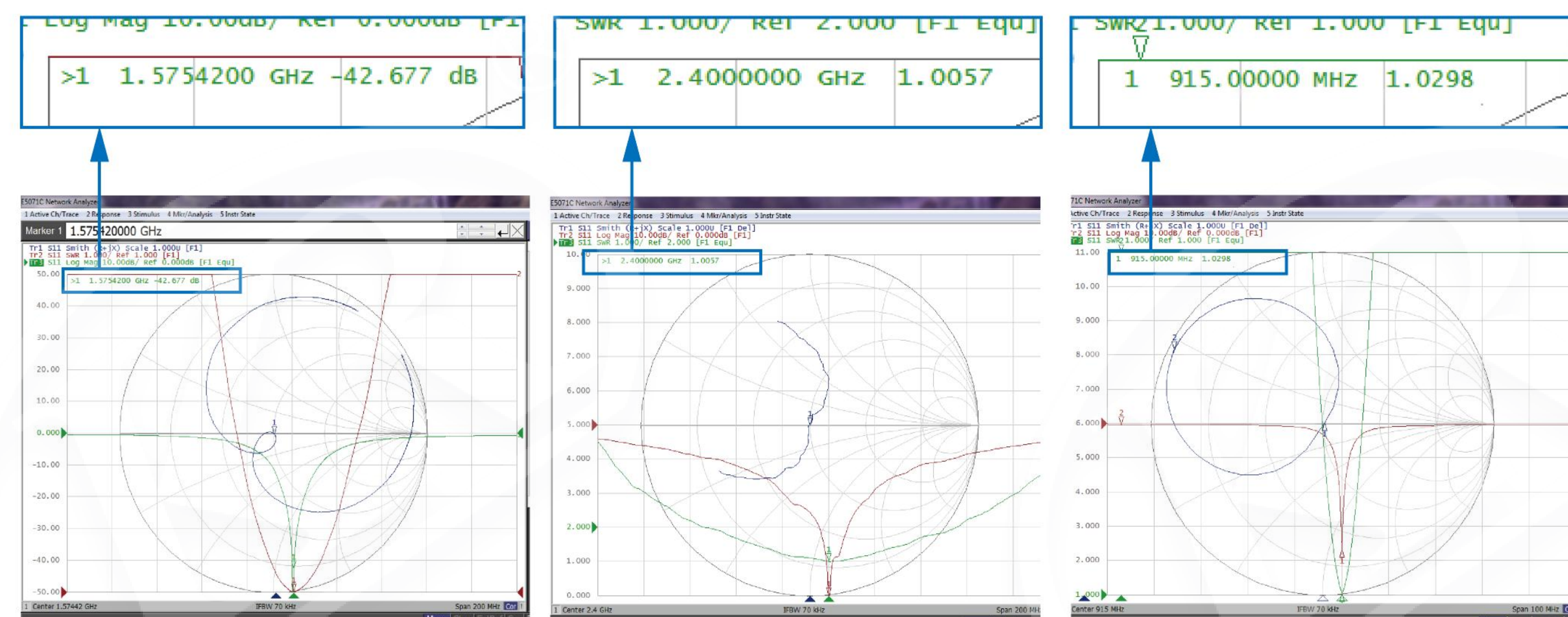
GNSS

型号 Part Number	尺寸 Ceramic Size (mm)	馈针数 Feed Pin Number	馈点尺寸 Feed Point Size	频率范围 Frequency Range (MHz)	-10dB带宽 10dB Bandwidth (MHz)	增益 Gain(dBi)	驻波比 VSWR(in BW)max	接地板尺寸 Ground Plane Size (mm)	应用 Application
8*8陶瓷天线 8*8 Ceramic Antenna	8*8	单 Single	/	1561-1602	/	-3.0	1.5	12*12	BD+GPS+GLONASS
10*10陶瓷天线 10*10 Ceramic Antenna	10*10	单 Single	/	1561-1602	/	-2.0	1.5	12*12	BD+GPS+GLONASS
12*12陶瓷天线 12*12 Ceramic Antenna	12*12	单 Single	/	1561-1602	/	0.0	1.5	12*12	BD+GPS+GLONASS
15*15陶瓷天线 15*15 Ceramic Antenna	15*15	单 Single	/	1561-1602	/	1.5	1.5	25*25	BD+GPS+GLONASS
16*6单偏/双偏陶瓷天线 16*6 Single-biased/Double-biased Ceramic Antenna	16*6	单 Single	/	1561-1602	/	0.5	1.5	23*10	BD+GPS+GLONASS
18*18陶瓷天线 18*18 Ceramic Antenna	18*18	单 Single	/	1561-1602	/	2.0	1.5	25*25	BD+GPS+GLONASS
18*18双偏陶瓷天线 Double-biased Ceramic Antenna	18*18	单 Single	/	1561-1602	/	2.0	1.5	25*25	BD+GPS+GLONASS
18*18贴片陶瓷天线 Patch Ceramic Antenna	18*18	/	/	1561-1602	/	2.0	1.5	/	BD+GPS+GLONASS
18.5*18.5双偏陶瓷天线 18.5*18.5 Double-biased Ceramic Antenna	18.5*18.5	单 Single	/	1561-1602	/	2.0	1.5	25*25	BD+GPS+GLONASS
20*20陶瓷天线 20*20 Ceramic Antenna	20*20	单 Single	/	1561-1602	/	2.5	1.5	25*25	BD+GPS+GLONASS
20*6双偏陶瓷天线 Double-biased Ceramic Antenna	20*6	单 Single	/	1561-1602	/	1.0	1.5	23*10	BD+GPS+GLONASS
25*25陶瓷天线 Ceramic Antenna	25*25	单 Single	/	1561-1602	/	3.0	1.5	25*25	BD+GPS+GLONASS
25*25双偏陶瓷天线 Double-biased Ceramic Antenna	25*25	单 Single	/	1561-1602	/	3.0	1.5	25*25	BD+GPS+GLONASS
25*25贴片陶瓷天线 25*25 Patch Ceramic Antenna	25*25	/	/	1561-1602	/	3.0	1.5	/	BD+GPS+GLONASS
35*35陶瓷天线 35*35 Ceramic Antenna	35*35	单 Single	/	1561-1602	/	4.0	1.5	35*35	BD+GPS+GLONASS
25*25陶瓷天线 25*25 Ceramic Antenna	25*25	双 Double	2.6+2.6	1561-1602	/	3.0	1.5	25*25	BD+GPS+GLONASS
30*30陶瓷天线 30*30 Ceramic Antenna	30*30	双 Double	1.65+3.3	1263	/	3.5	1.5	35*35	B3
35*35陶瓷天线 35*35 Ceramic Antenna	35*35	双 Double	4+4	1561-1602	/	4.0	1.5	60*60	BD+GPS+GLONASS
35*35双频陶瓷天线 35*35 Dual-frequency Ceramic Antenna	35*35	双 Double	4.5+4.5	1575+1176	/	4.0	1.5	60*60	L1/B1C+L5/B2A
38*38陶瓷天线 38*38 Ceramic Antenna	38*38	双 Double	4.8+4.8	1561-1602	/	4.5	1.5	60*60	BD+GPS+GLONASS

GPS/B1C

WLAN

RFID



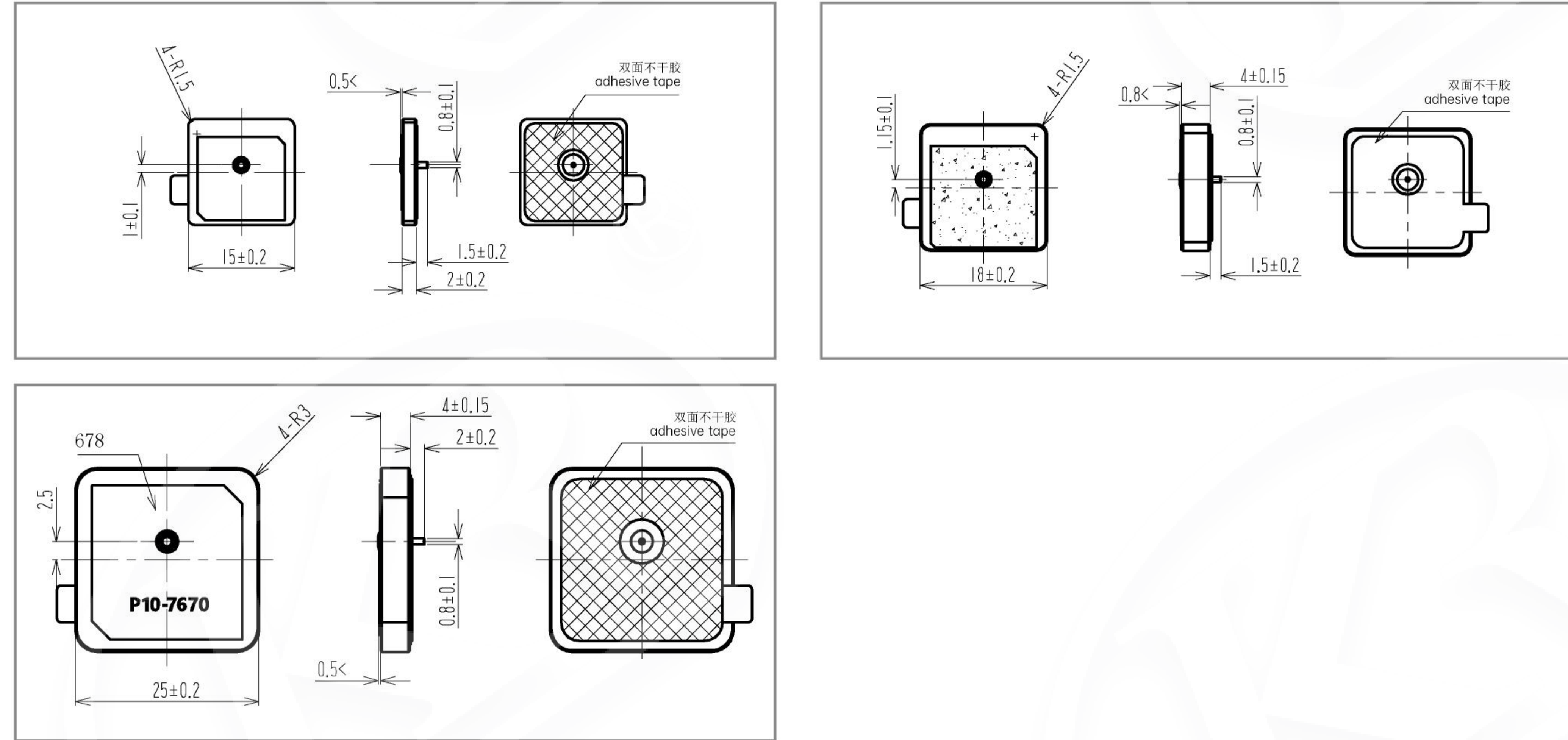
部分产品 PART OF PRODUCT FIGURES



WLAN

厚度可定制
Thickness could be customized

型号 Part Number	尺寸 Ceramic Size (mm)	馈针数 Feed Pin Number	馈点尺寸 Feed Point Size	频率范围 Frequency Range (MHz)	-10dB带宽 10dB Bandwidth (MHz)	增益 Gain(dBi)	驻波比 VSWR(in BW)max.	接地板尺寸 Ground Plane Size (mm)	应用 Application
15*15陶瓷天线 15*15 Ceramic Antenna	15*15	单 Single		2400	/	1.5	1.5	25*25	WLAN
18*18陶瓷天线 18*18 Ceramic Antenna	18*18	单 Single		2400	/	2.0	1.5	25*25	WLAN
25*25陶瓷天线 25*25 Ceramic Antenna	25*25	单 Single		2400	/	3.0	1.5	25*25	WLAN



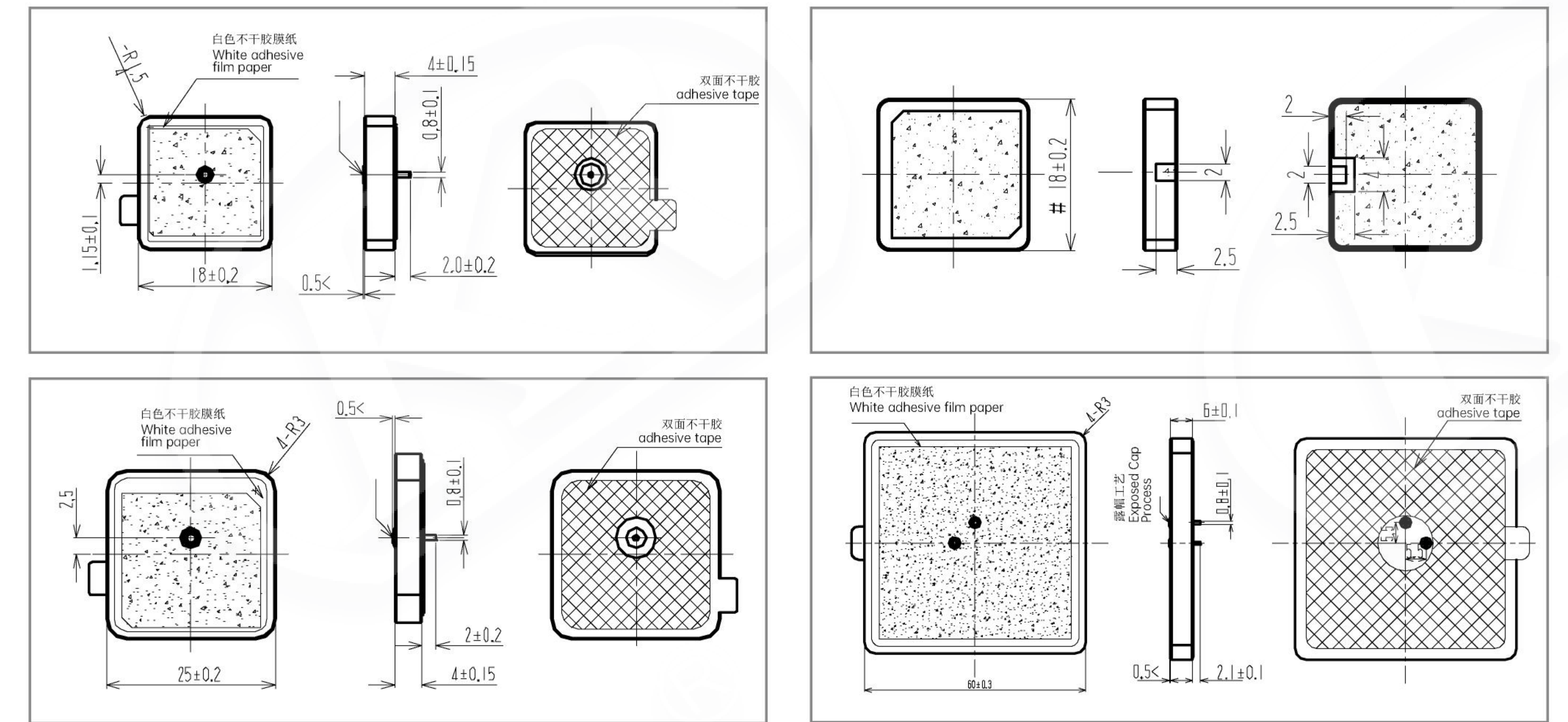
部分产品 PART OF PRODUCT FIGURES



RFID

厚度可定制
Thickness could be customized

型号 Part Number	尺寸 Ceramic Size (mm)	馈针数 Feed Pin Number	馈点尺寸 Feed Point Size	频率范围 Frequency Range (MHz)	-10dB带宽 10dB Bandwidth (MHz)	增益 Gain(dBi)	驻波比 VSWR(in BW)max.	接地板尺寸 Ground Plane Size (mm)	应用 Application
18*18陶瓷天线 18*18 Ceramic Antenna	18*18	单 Single	/	865-928	/	1.5	2.0	25*25	RFID
18*18贴片陶瓷天线 18*18 Patch Ceramic Antenna	18*18	/	/	865-928	/	2.0	2.0	/	RFID
25*25贴片陶瓷天线 25*25 Patch Ceramic Antenna	25*25	/	/	865-928	/	3.0	2.0	/	RFID
25*25陶瓷天线 25*25 Ceramic Antenna	25*25	单 Single	/	865-928	/	3.0	2.0	25*25	RFID
35*35陶瓷天线 35*35 Ceramic Antenna	35*35	单 Single	/	865-928	/	3.0	2.0	35*35	RFID
40*40陶瓷天线 40*40 Ceramic Antenna	40*40	双 Double	6+6	865-928	/	3.0	2.0	60*60	RFID
60*60陶瓷天线 60*60 Ceramic Antenna	60*60	双 Double	5.5+5.5	865-928	/	4.0	2.0	60*60	RFID



部分产品 PART OF PRODUCT FIGURES



高精度叠层陶瓷天线

High Precision Stacked Patch Ceramic Antenna

优点: 高介电、精准稳定、抗扰耐用、小巧灵活、信号传输高效
 Advantages: High dielectric, accurate and stable, anti-interference and durable, small size and flexible, efficient signal transmission.

高精度叠层陶瓷天线

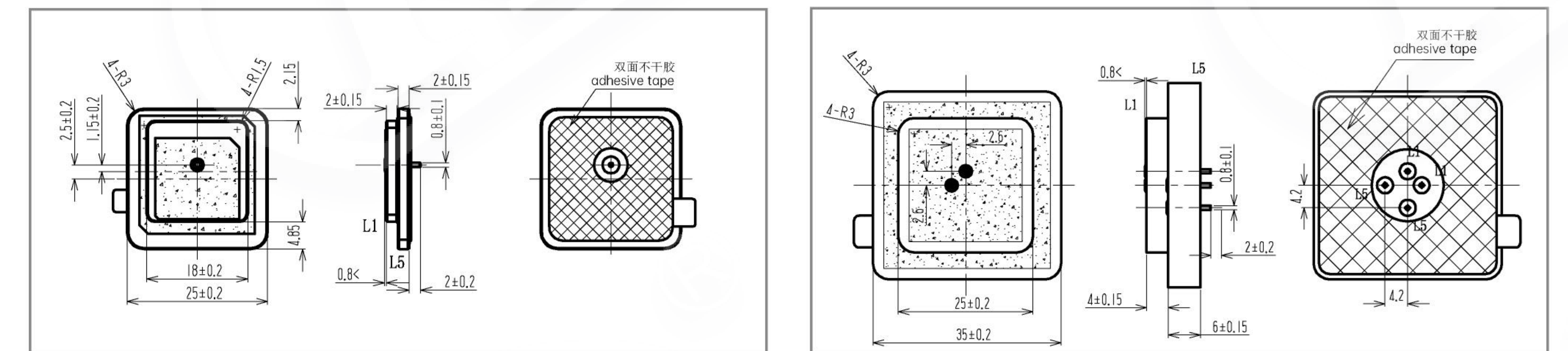
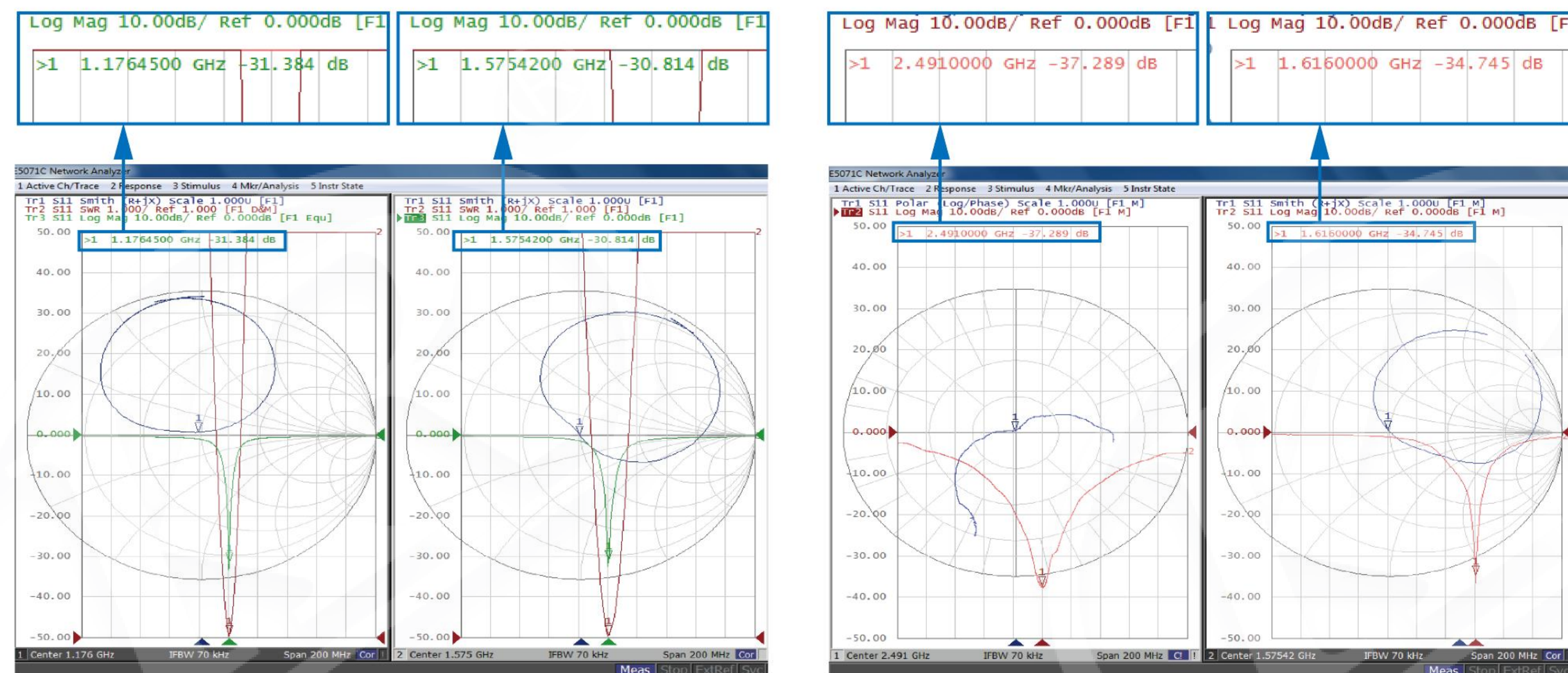
High Precision Stacked Patch Ceramic Antenna

型号 Part Number	尺寸 Ceramic Size (mm)	馈针数 Feed Pin Number	馈点尺寸 Feed Point Size	频率范围 Frequency Range (MHz)	-10dB带宽 10dB Bandwidth (MHz)	增益 Gain(dB)	驻波比 VSWR(in BW)max	接地板尺寸 Ground Plane Size (mm)	应用 Application
12+20叠层陶瓷天线 12+20 Stacked Patch Ceramic Antenna	12+20	1+0	2	1176-1575	/	/	1.5	25*25	L1/B1C+L5/B2A
15+25叠层陶瓷天线 15+25 Stacked Patch Ceramic Antenna	15+25	1+0	2.5	1176-1575	/	/	1.5	25*25	L1/B1C+L5/B2A
18+25叠层陶瓷天线 18+25 Stacked Patch Ceramic Antenna	18+25	1+0	2.5	1176-1575	/	/	1.5	25*25	L1/B1C+L5/B2A
25+35叠层陶瓷天线 25+35 Stacked Patch Ceramic Antenna	25+35	1+0	4.5	1176-1575	/	/	1.5	35*35	L1/B1C+L5/B2A
18+25叠层陶瓷天线 18+25 Stacked Patch Ceramic Antenna	18+25	1+1	1.15+2.5	1176-1575	/	/	1.5	25*25	L1/B1C+L5/B2A
25+38叠层陶瓷天线耦合 25+38 Stacked Patch Ceramic Antenna	25+38	2+0	5+5	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
25+38叠层陶瓷天线耦合 25+38 Stacked Patch Ceramic Antenna	28+38	2+0	5+5	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
28+38叠层陶瓷天线 28+38 Stacked Patch Ceramic Antenna	28+38	1+1	2.6+4.2/3.7+4.2	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
25+35叠层陶瓷天线 25+35 Stacked Patch Ceramic Antenna	25+35	2+2	2.6+4.2	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
25+35叠层陶瓷天线 Stacked Patch Ceramic Antenna	25+35	1+1	4+4	1618-2491	/	/	1.5	70*70	S+L
28+38叠层陶瓷天线 28+38 Stacked Patch Ceramic Antenna	28+38	2+2	2.6+4.2/3.7+4.2	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
40+50叠层陶瓷天线 40+50 Stacked Patch Ceramic Antenna	40+50	2+2	6+6	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A
42+58叠层陶瓷天线 42+58 Stacked Patch Ceramic Antenna	42+58	2+2	5.6+7.8	1176-1575	/	/	1.5	70*70	L1/B1C+L5/B2A

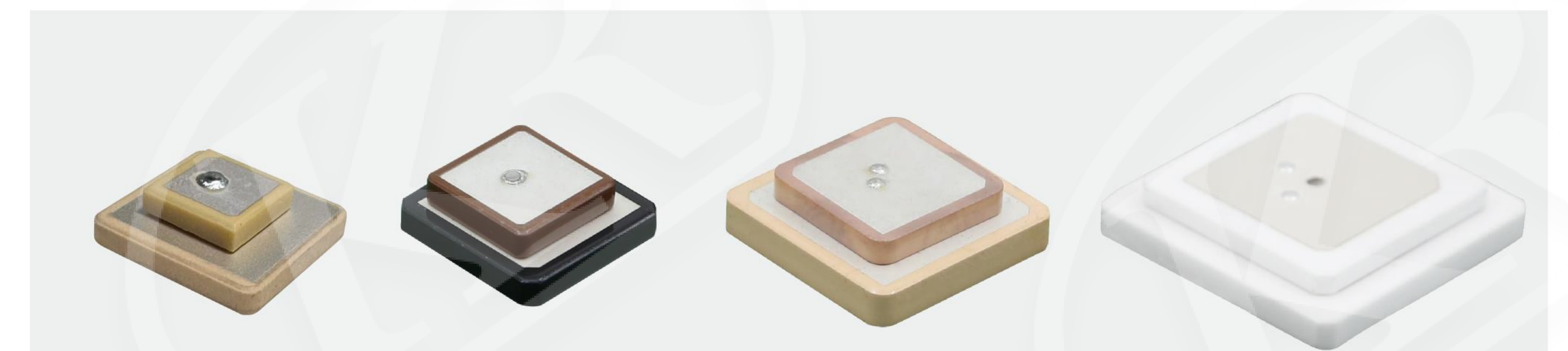


L1/B1C+L5/B2A

S+L



部分产品 PART OF PRODUCT FIGURES





微波介质陶瓷粉体材料 & 各型介质陶瓷

Microwave Dielectric Ceramic Powder Material & Dielectric Ceramics

DK6.0 ~ DK65粉体系列

DK6.0~DK65 series

DK65 ~ DK130粉体系列

DK65~DK130 series

产品应用:

微波介质陶瓷是用于微波频段300MHZ~300GHZ, 电路中作为介质材料, 并完成一种或多功能的陶瓷, 主要适应移动通讯、物联网通讯发展需求。

Product Application:

Microwave dielectric ceramics are used in the microwave frequency band from 300MHz to 300GHz, serve as dielectric materials in circuits and are ceramics that perform one or more functions. It mainly meets the development needs of mobile communications and Internet of Things communications.

陶瓷天线 Ceramic Antenna

产品应用:

陶瓷天线经客户焊接于GPS模块中, 可用于GPS模块+天线一体化, 通过解码芯片, NMEA0183标准协议, 实现RTC记忆电池、TTL输出、RS232、RS485、4G通讯等功能, 广泛应用于无人机、测量仪、定位飞控、车载导航等。(陶瓷天线支持客户来样订制)

Product Application:

Ceramic antenna is welded in GPS module by customer, which can be used for GPS module and antenna integration. Through the decoding chip, NMEA0183 standard protocol, it can realize RTC memory battery, TTL output, RS232, RS485, 4G communication and other functions.

It is widely used in unmanned aerial vehicles, measuring instruments, positioning flight control and vehicle navigation, etc. (Ceramic antenna can be customized.)