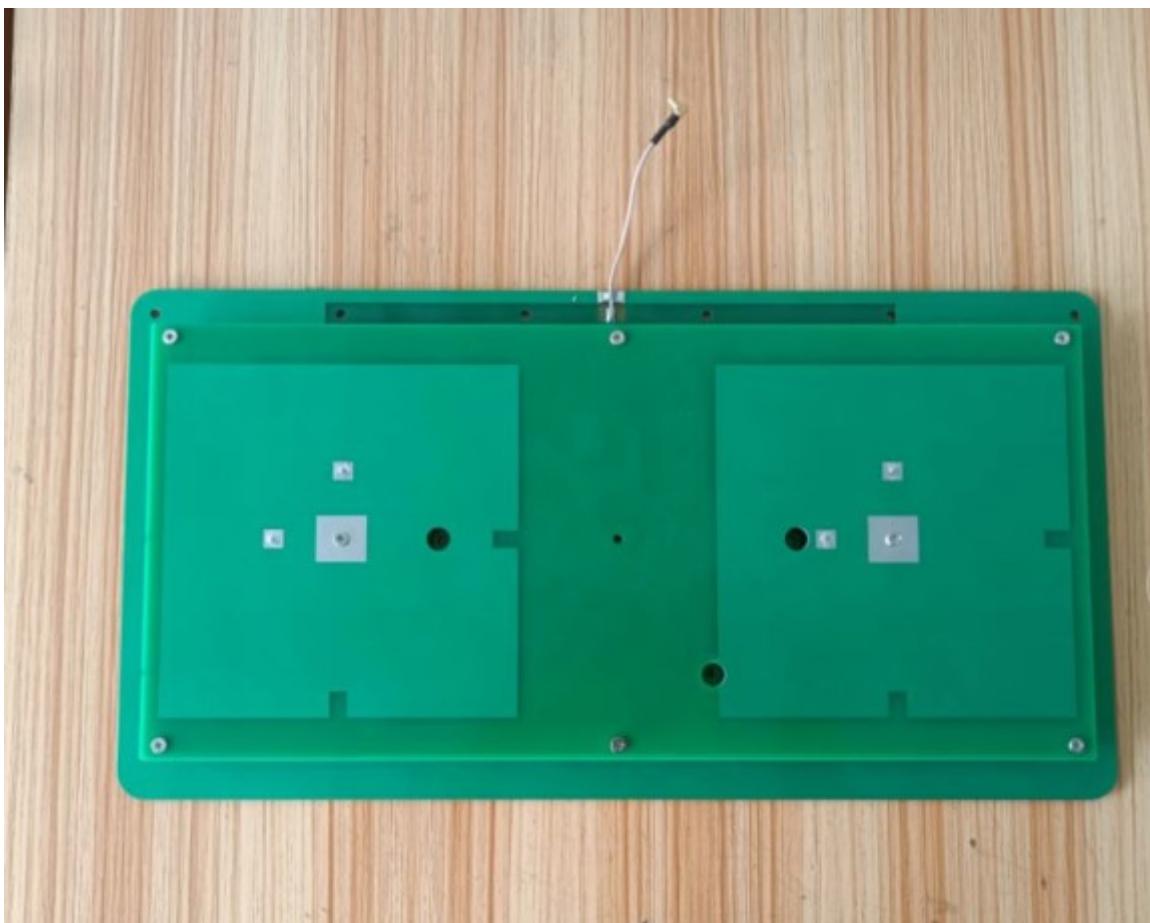


CL310/CL311天线参数介绍

规格参数

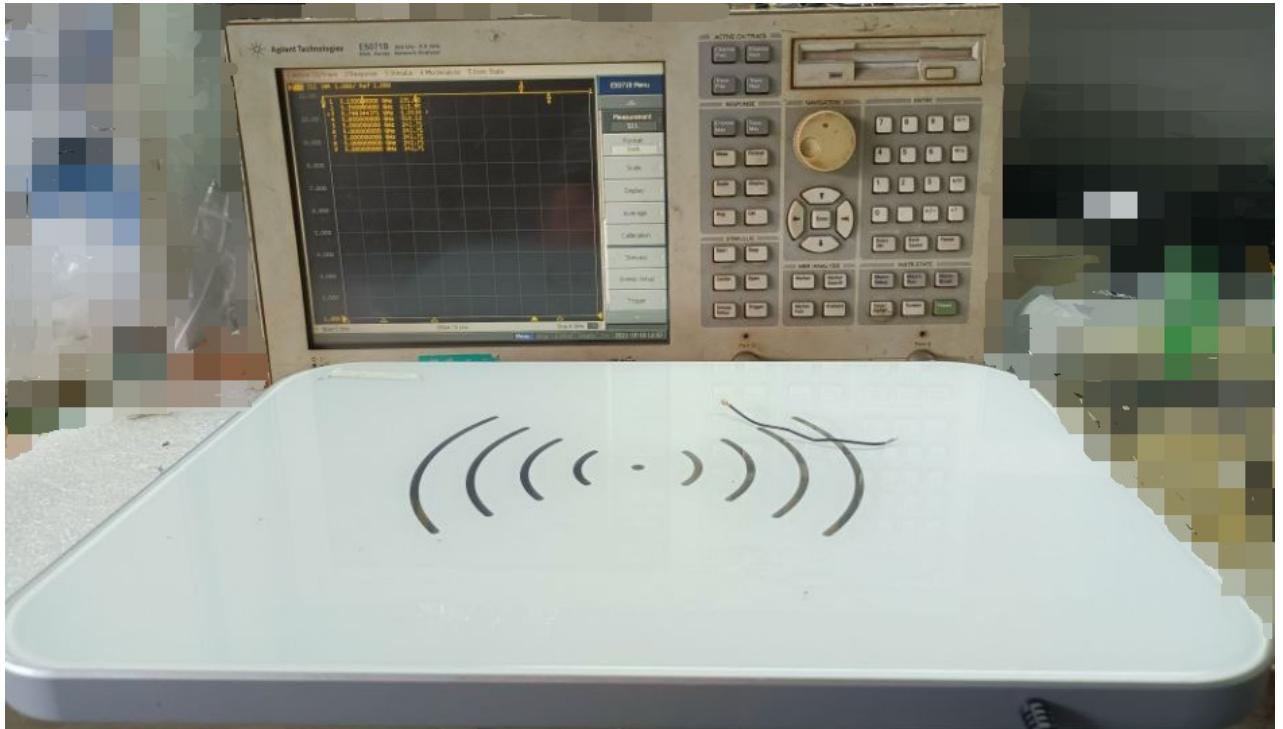
技术要求	技术指标
产品类型(Model Type)	ANTCL31X
频率范围 (Frequency range)	902MHZ-928MHZ
设计增益 (Gain)	7.4dBi
天线效率(Antenna Efficiency)	50.5%@915MHz
驻波比 (SWR)	≤1.5
轴比(Axial Ratio)	1.15dB@915MHz
极化方式(Polarization)	右旋圆极化
3dB 波瓣宽度(3dB Beamwidth)	113 ± 6@Phi=0° , 127 ± 6@Phi=90°
辐射方向(Radiation Pattern)	定向 (directional)
阻抗(Impedance)	50Ω
功率容量(Power Handling)	10W
天线接口(Interface)	MMCX1.78线
馈线长度(Cable Length)	80mm
外形尺寸(Dimensions)	347mm*180mm*14.2mm
工作温度(Operation Temp)	-35 - 70° C
储存温度(Storing Temp)	-35 - 70° C

天线图片：



天线测试环境

天线输入特性测试使用 Agilent E5071B 矢量网络分析仪。



天线辐射特性测试使用天线暗室测试。

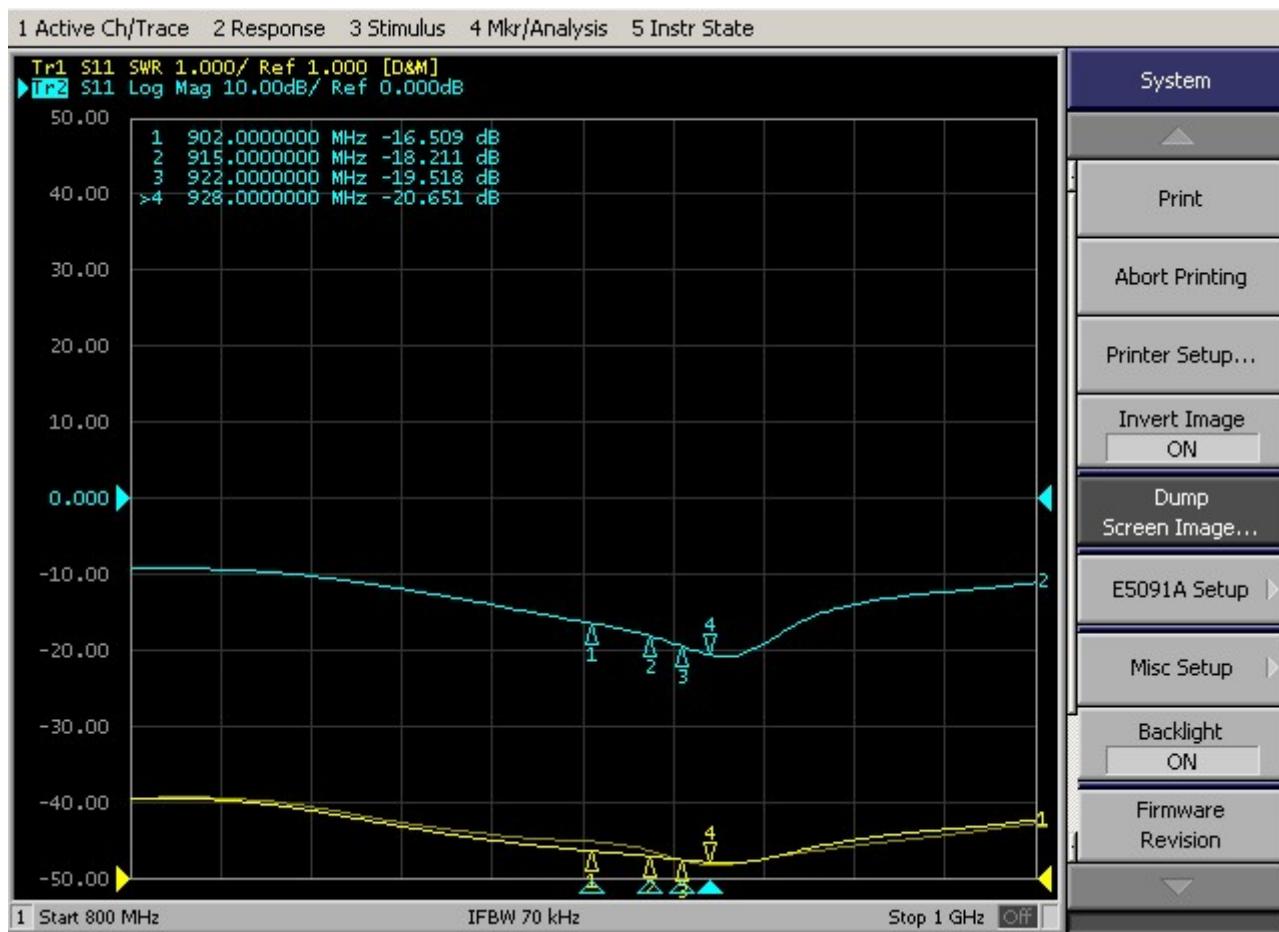


天线测试结果

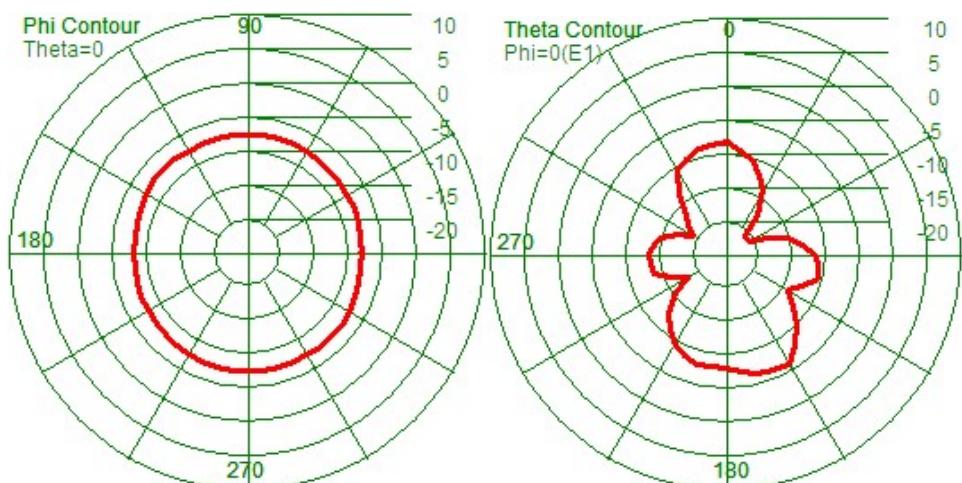
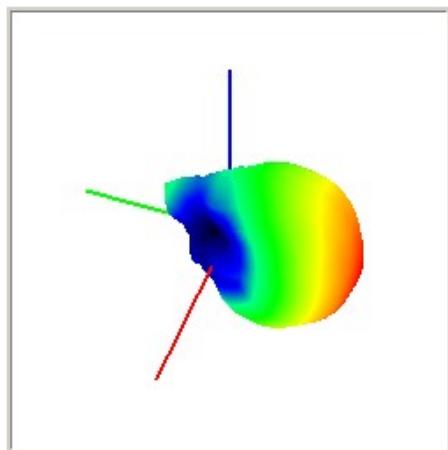
1、反射系数和电压驻波比

频率 (Frequency range)	反射系数	驻波比
902MHZ	-16.5db	1.2
915MHZ	-18.2dB	1.2
928MHZ	-20.6db	1.2

反射系数



天线的辐射方向图



Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	900.0	900.00	6.21	10.06	41.2%
2	905.0	905.00	6.59	10.12	44.4%
3	910.0	910.00	6.97	10.17	47.8%
4	915.0	915.00	7.20	10.23	49.8%
5	920.0	920.00	7.33	10.29	50.5%
6	925.0	925.00	7.39	10.38	50.3%
7	930.0	930.00	7.36	10.45	49.1%
8	935.0	935.00	7.23	10.49	47.1%
9	940.0	940.00	7.01	10.52	44.5%