

	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

深圳市榕盛源科技有限公司
Shenzhen RSYElectronic Technology Co., Ltd

产品规格书
PRODUCTSPECIFICATION

客户 Customer	M5
客户编码 Customer's part number	
产品料号 Product Material Code	RSY-E5022
工作频段 Working Band	433.92MHz
发行日期 Issue Date	2026-02-01
发行版本 Release Version	V1.0
作者 Author	Yang Ye

	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

1 产品技术指标 (PRODUCT TECHNICAL SPECIFICATION)

产品名称 Name	Lora天线	型号 Model Type	RSY-E5018
频率范围 Frenquency Range	433.92MHZ	尺寸 Dimensions	108±2mm
驻波比 VSWR	<2	连接器型号 Connector	SMA 内螺内孔
平均增益 Gain	≥ -4.7 dBi	外壳材料 Radome Material	TPEE
输入阻抗 Impedance	50欧姆	外壳颜色 Radome Color	黑色
极化方式 Polarization	垂直极化	电缆型号/高度 Cable Length	
辐射方向 Radiaton	全向	工作温度 Working Temperature	-40℃- +80℃

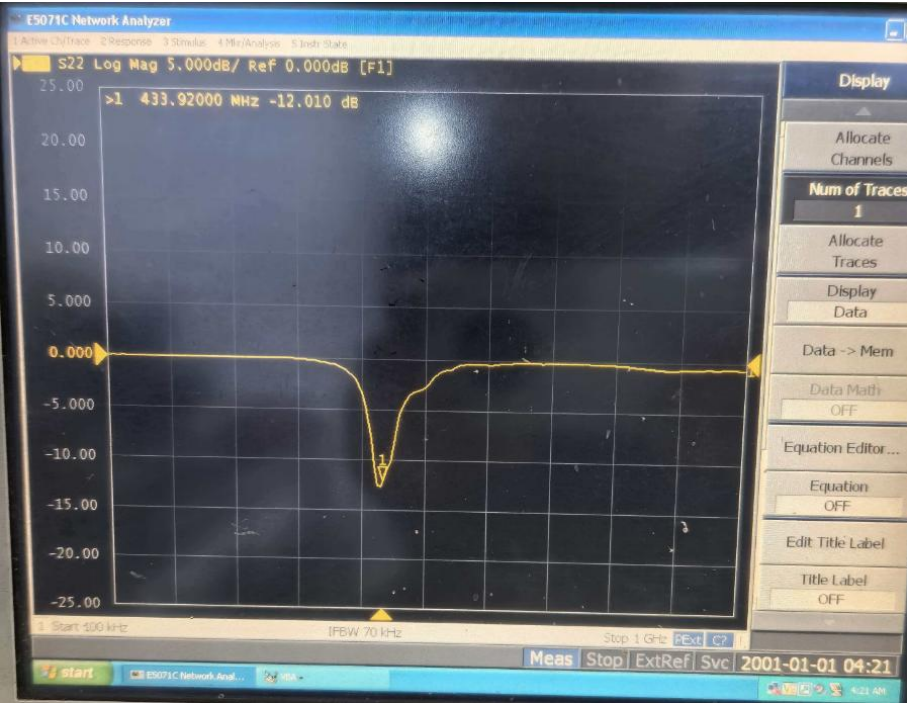
2 产品电性能参数 (PRODUCT ELECTRICAL PERFORMANCE PARAMETER)

1. 产品图片 (Product picture)

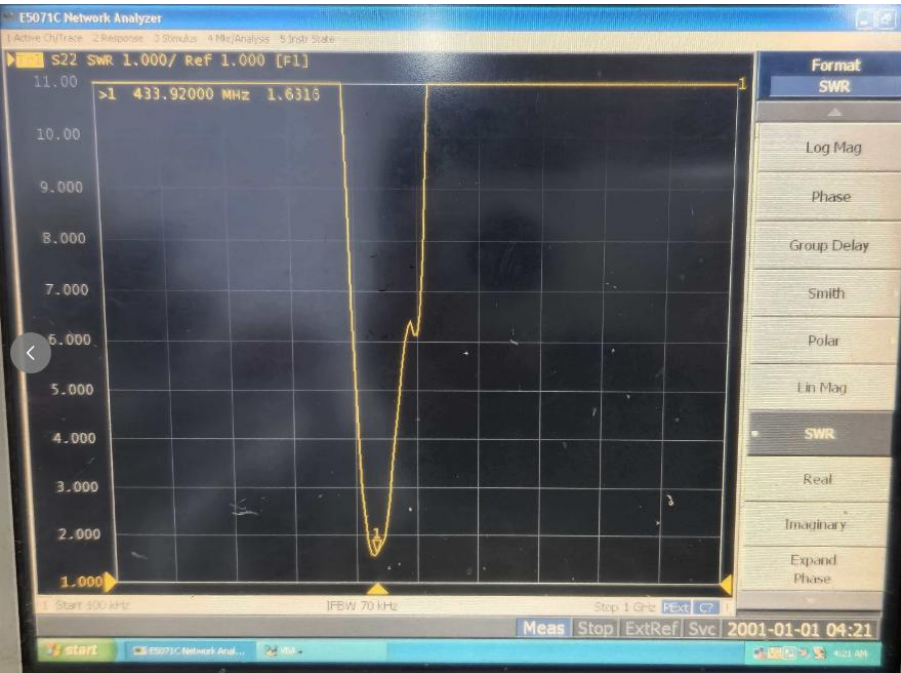


	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

2.2 反射损耗 (S11)



2.3 驻波比 (VSWR)

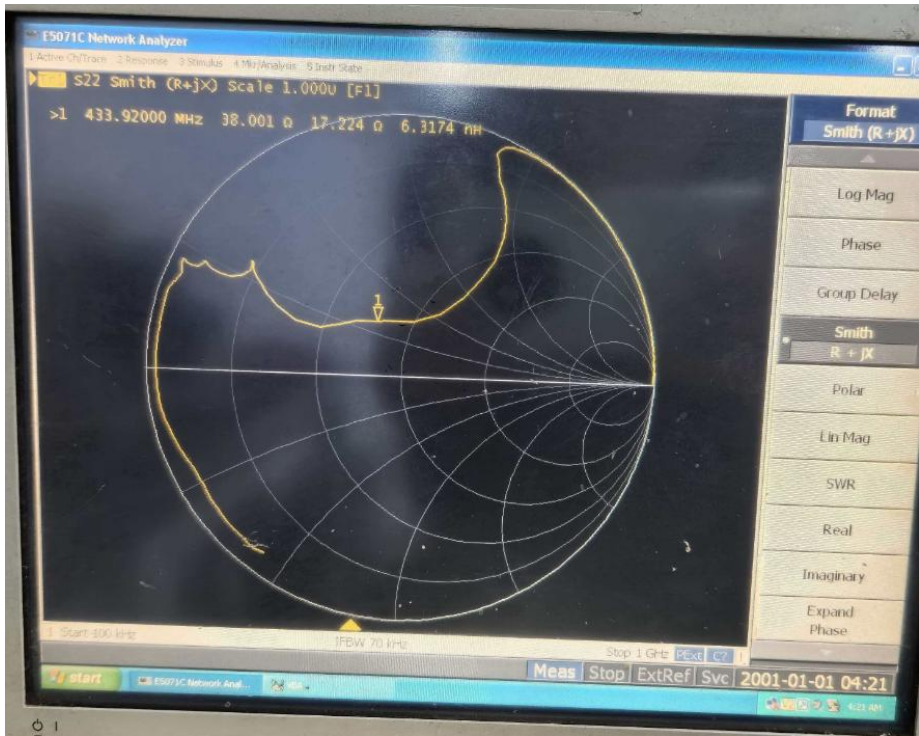


Fre.(MHz)	VSWR
433.92	1.63

*

	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

2.4 史密斯图 (Smith Chart)



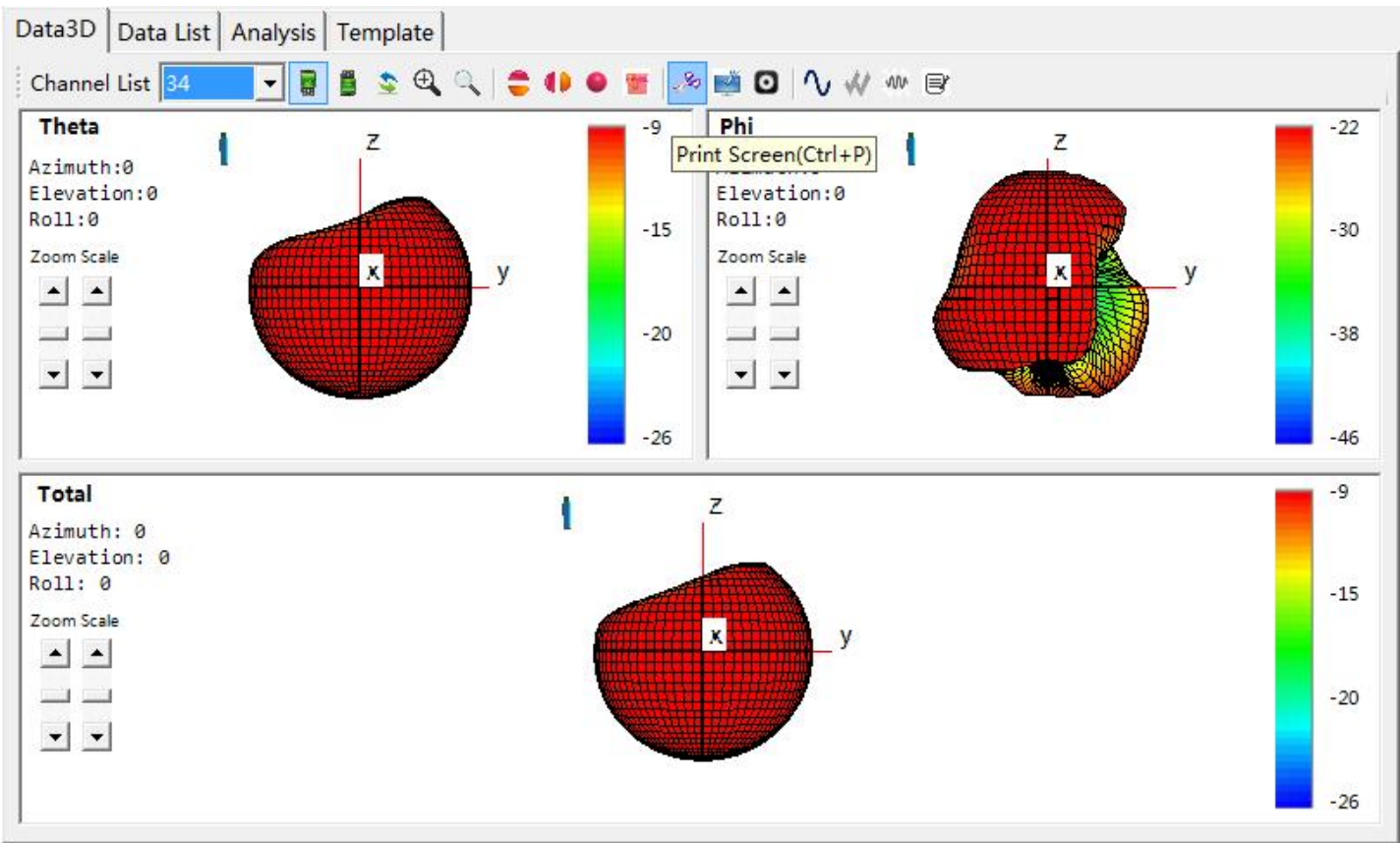
2.5 效率、增益 (Efficiency/Gain/VSWR)

Freq	Avg (Gain)	VSWR	Efficiency_Percent
420	-5.69	2.05	14.16
425	-5.28	2.09	17.57
430	-4.78	2.39	18.46
435	-4.55	2.82	18.39
440	-4.63	3.28	18.47
445	-4.31	3.54	18.59
450	-3.43	3.57	20.09

180度测试

	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

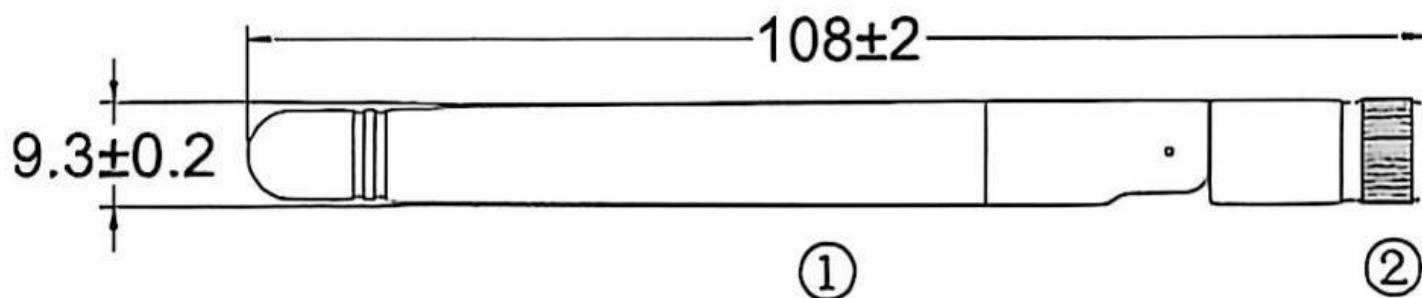
2.6 辐射方向图 (Radiation Pattern)



433.92MHz

	Date 02/01/2026	Version No. V1.0
--	-----------------	------------------

3 产品尺寸 (Product **dimensions**)



Unit: mm