

Product Specifications for Approval

Communication antenna

frequency band: 902-928MHz

Version: A0

Number: FS-271

Production date: 2022-11-25

Developed by Feisheng Electronics Co ., LTD			
Structure:	<u>Xu Long</u>	Radio frequency:	<u>Guo Xi</u>
Review:	<u>Li Sheng</u>	Approval:	<u>Li Sheng</u>
Customer Confirmation			

Address: 3rd Floor, No. 70, Baotong South Road, Yungu Street, Xikeng, Henggang
Town, Shenzhen City

Telephone: 0755-85218289 F a x : 0755-8522318

PARTS DRAWING 零件图

ROHS Compliant

REV	产品料号	画图时间		制图人	审核时间
A0	FS-271	2022.11.25			



L: 160mm

W: 10mm

1. 线材外被无破皮, 损伤。
2. 成品须100%测试导通 OK。
3. 成品须100%全检OK。
4. 采用环保制程, 成品符合ROHS要求。
- 额定电压: AC 60V
接触阻抗: 20-0hm
耐电压: AC200V
绝缘阻抗: 500m-0hm
特性阻抗: 50 Ohm

工作频率 (Frequency Range)	915MHz
增益 (Gain)	2DBi
电压驻波比 (VSWR)	对比波形
极化方式 (Polarisation)	垂直
特性阻抗 (Impedance)	50 OHM

NO	Code	Name	Description	Q'ty	Part NO
2		胶套	80*12MM 白色 内六角	1	
1		SMA	内螺母针 镀金24H 内装 六角	1	



角注

ANGLE PROJECTION

公差
GENERAL TOLERANCE

100~200:	± 3.00
50~100:	± 2.00
25~50:	± 0.20
10~25:	± 0.15
1~10:	± 0.1

产品名称 (PRODUCT NAME)

胶棒天线-915MHz-SMA公头母针内装六角-L=80MM

产品料号	单位 (UNIT)	M M	比例 (SIZE)	1:3
FS-271	页数 (PAGE)	1 OF 1	幅面 (FORNMT)	A4
业务	仓库			
PMC	生产			
采购	品质			



深圳市飞胜电子有限公司
SHENZHEN FEISHENG ELECTRONIC CO., LTD

Product Feature Specification sheet

一、 Basic characteristics of the product:

Product type: Rubber rod antenna -915MHz-SMA male and female pins with built-in hexagonal -L=80MM	
DESCRIPTION	VALUE
Working frequency band	902-928MHz
Characteristic impedance	50 Ω
Voltage standing wave ratio	Compare the waveforms of the samples
Gain	2DBi
Conduction resistance	0.5 Ω
Insulation resistance	30 Ω
Dc voltage	300V
Power	1W
Joint model	SMA
Working temperature	-45℃~+85℃
Storage temperature	-45℃~+85℃

1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement S :

A. Reflection coefficient :

(a) Instrument: Network Analyzer .(b) Setup :

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

(4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

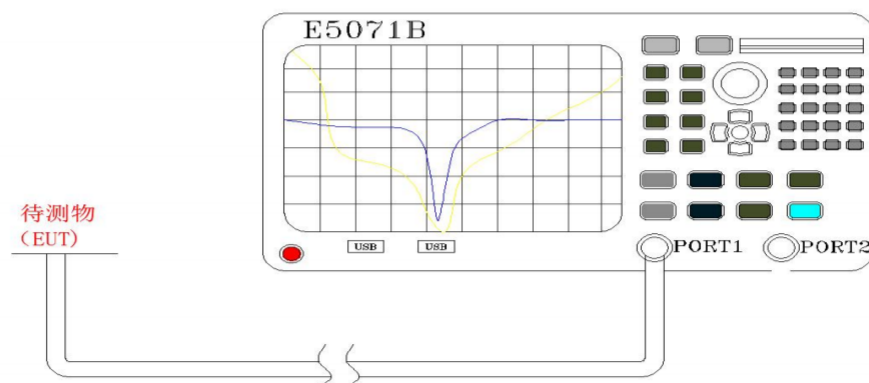


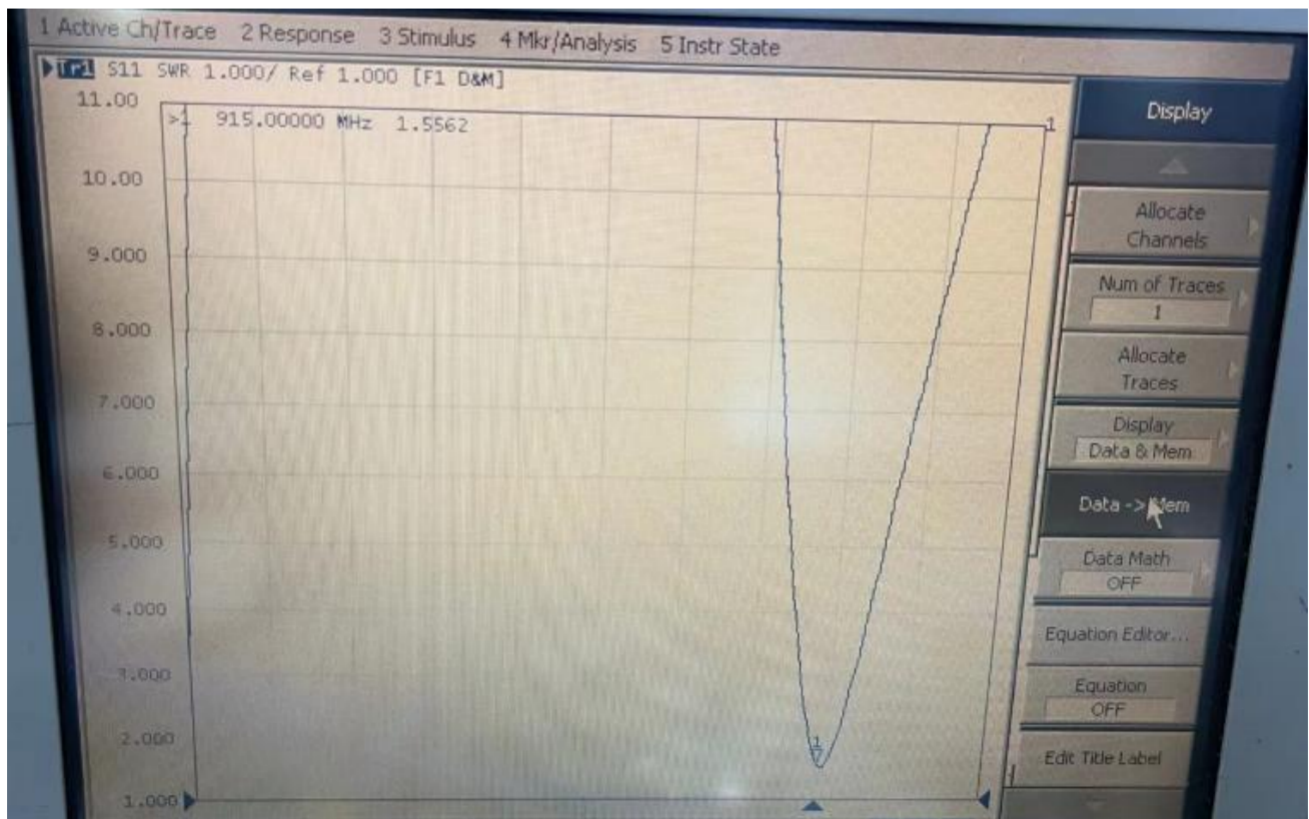
Fig.1 Antenna measured in Network Analyzer

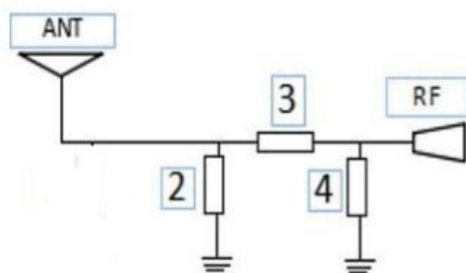
3. S-Parameter Measurement Result S :

S-Parameter test data S-:

Frequency MHz	915
DB	1.55

S-Parameter test image S-:





序列号	电容	电感
1	N/A	N/A
2	N/A	N/A
3	1PF	N/A
4	N/A	N/A

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Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
915	14.57	2.0dBi

2D、3D

2D

915MHz

