

LSN50 V3 Product Specifications for Approval

Customer name:

Antenna band: 900-915MHz

edition: A0

Date of manufacture: 2023-10-25

ID: FS-WZ-JB-242

PARTS DRAWING 零件图					ROHS Compliant		REV	PRODUCT NO.	DATE	NAME	DESCRIPTION
							A0	FS-WZ-JB-242	2023. 09. 20		初始发行

②黑色杆套丝印
V3 915MHz

要求

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。
5. 未注公差请以一般公差为准。

测试条件

额定电压: AC 60V

接触阻抗: 20-0hm

耐电压: AC300V

绝缘阻抗: 500m-0hm

特性阻抗: 50 0hm

NO	Code	Name	Description	Q'ty	工作频段 (Frequency Range)	915MHz	角法 ANGLE PROJECTION 公差 GENERAL TOLERANCES 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)				
					增益 (Gain)	2DBi		胶棒天线-V3-915MHz-SMA公头母针-L=105MM				
					电压驻波比 (VSWR)	对比波形		产品料号	单位 (UNIT)	M M	比例 (SIZE)	1:3
					极化方式 (Polarization)	垂直		FS-WZ-JB-242	页数 (PAGE)	1 OF 1	幅面 (FORNMT)	A4
					特性阻抗 (Impedance)	50 Ω		业务		仓库		
4	1. 009. 0126	铜管	40*3. 6MM 黄铜	1	工作温度: -45℃~85℃ 储存温度: -45℃~85℃		PMC		生产			
3	1. 003. 0709	绝缘线	RG58绝缘线 L=55MM	1			采购		品质			
2	1. 006. 0149	胶套	380C杆套 黑色 L=105MM 丝印V3 915MHz	1								
1	1. 004. 1097	SMA	公头母针 配380C杆套 内装	1								

Product characteristic specification sheet

一、 Basic product characteristics:

Product type: Glue stick antenna -915MHz-SMA male female needle -L=105MM	
DESCRIPTION	VALUE
Operating frequency band	900-915MHz
Characteristic impedance	50 Ω
Voltage standing wave ratio	Contrast sample waveform
gain	2DBi
on-resistance	0.5 Ω
Insulation resistance	30 Ω
Dc voltage	300V
power	1W
Joint type	SMA
Operating temperature	-45℃~+85℃
Storage temperature	-45℃~+85℃

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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 :

A. Reflection coefficient :

(a) Instrument (仪器) : Network Analyzer (网络分析仪).

(b) Setup 建立:

(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.

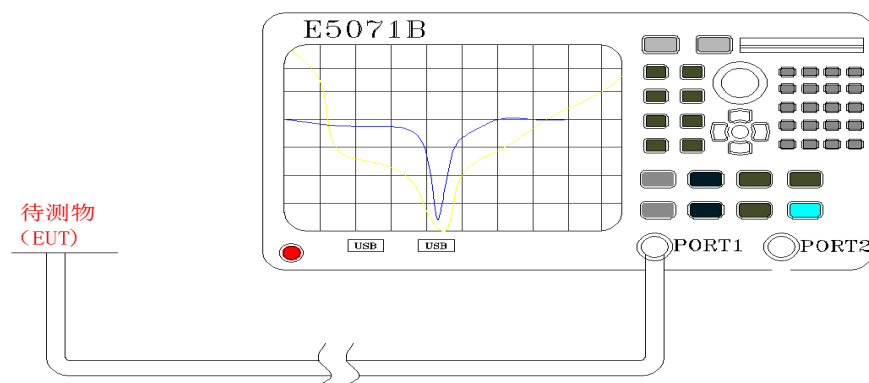


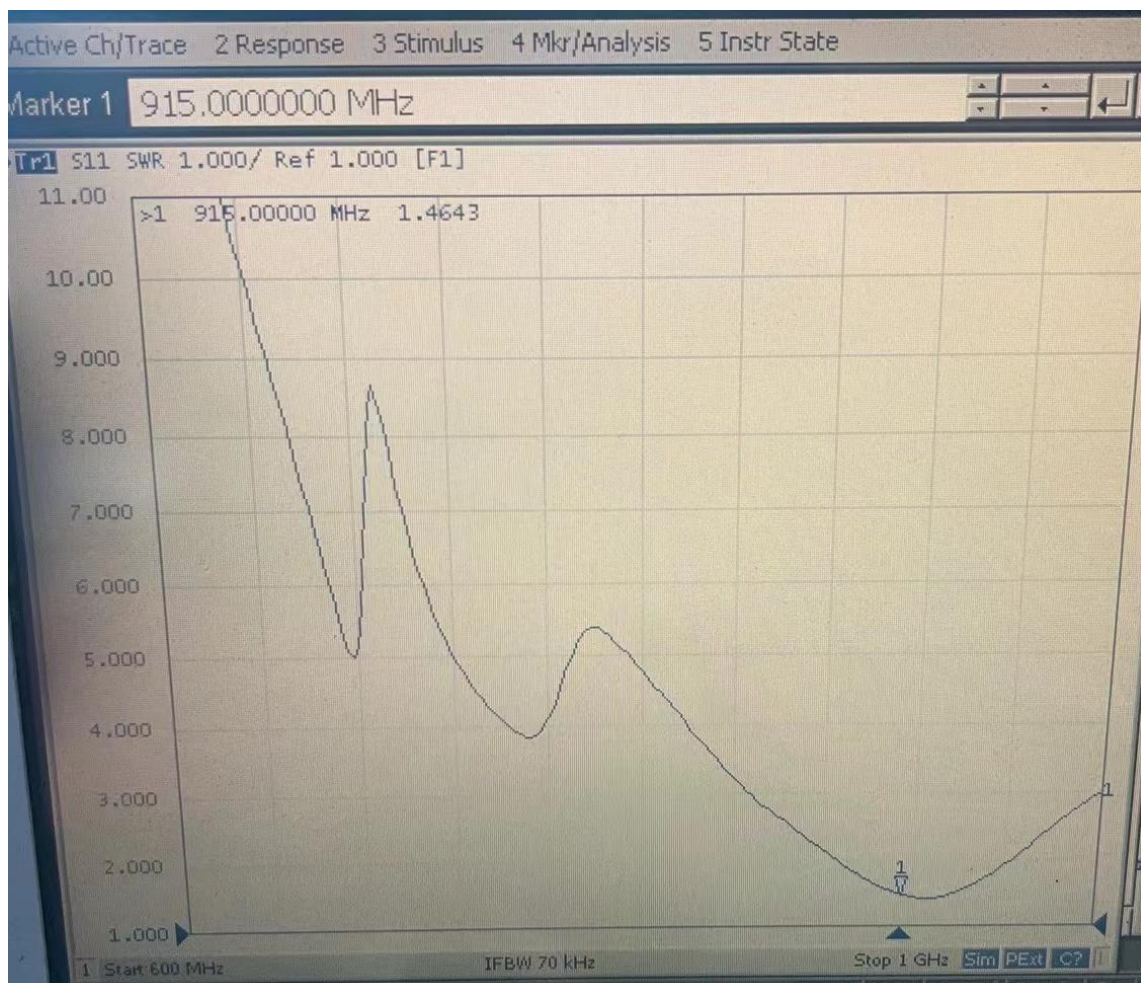
Fig.1 Antenna measured in Network Analyzer

3. S-Parameter Measurement Result :

S-Parameter test data :

Frequency MHz Operating frequency band	915
Standard loss DB value	1.46

S-Parameter test image :



Antenna profile:



915MHz

