

INTRODUCTION

This document provides a Sleeve Dipole Antenna design; this simulation is for wireless LAN.

1. GENERAL DESCRIPTION

Model No	Part Number
WS-3G-RA	

Below is a table summarizing the antenna design specification.

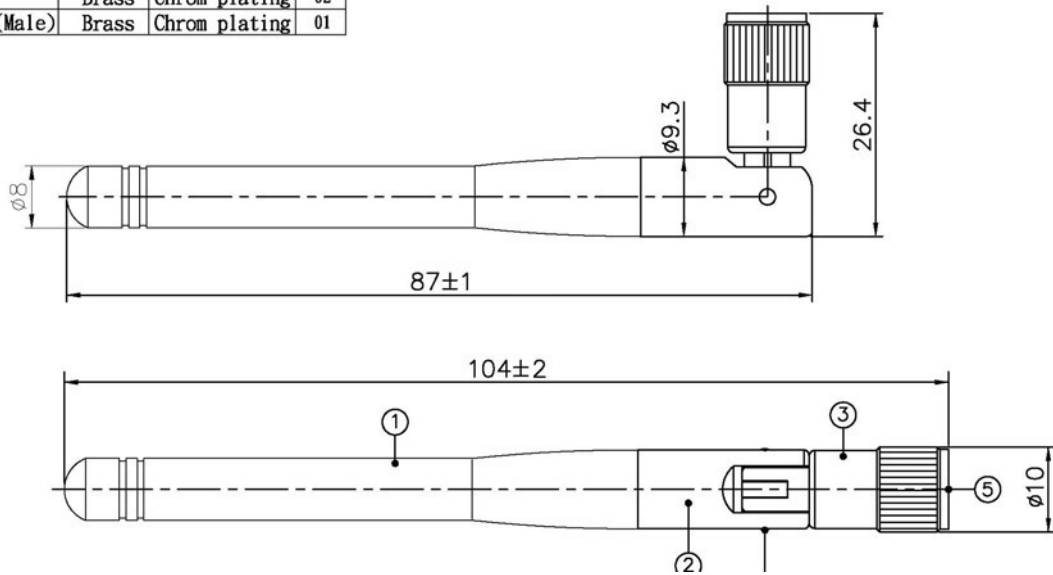
1.2 Electrical Properties

Parameter	Description
Frequency Band	800/900/1800/2100MHz
Nominal Impedance	50 ohm
Polarization Vertical	
Electrical Wave	$1/2\lambda$ Dipole
V.S.W.R	1 : 6.4
Antenna Average Gain	0~1.5dBi
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Cover	TPE
Touch Type	Screw Type
Connector Type	SMA 180°(Male)
Antenna Dimensions	104 mm \pm 2
Antenna Color	Black
Operating Temperature Range	-20 °C~+55 °C
Storage Temperature Range	-30 °C~+55 °C

NO.	NAME	MATERIAL	FINISH	Q, TY
01	Core tube	TPE	Black	01
02	Fixed upper	ABS	Black	01
03	Fixed beneath	ABS	Black	01
04	Rivet	Brass	Chrom plating	02
05	SMA 180°(Male)	Brass	Chrom plating	01



S11 FORWARD REFLECTION

TRANSMISSION/REFLECTION

CHN1

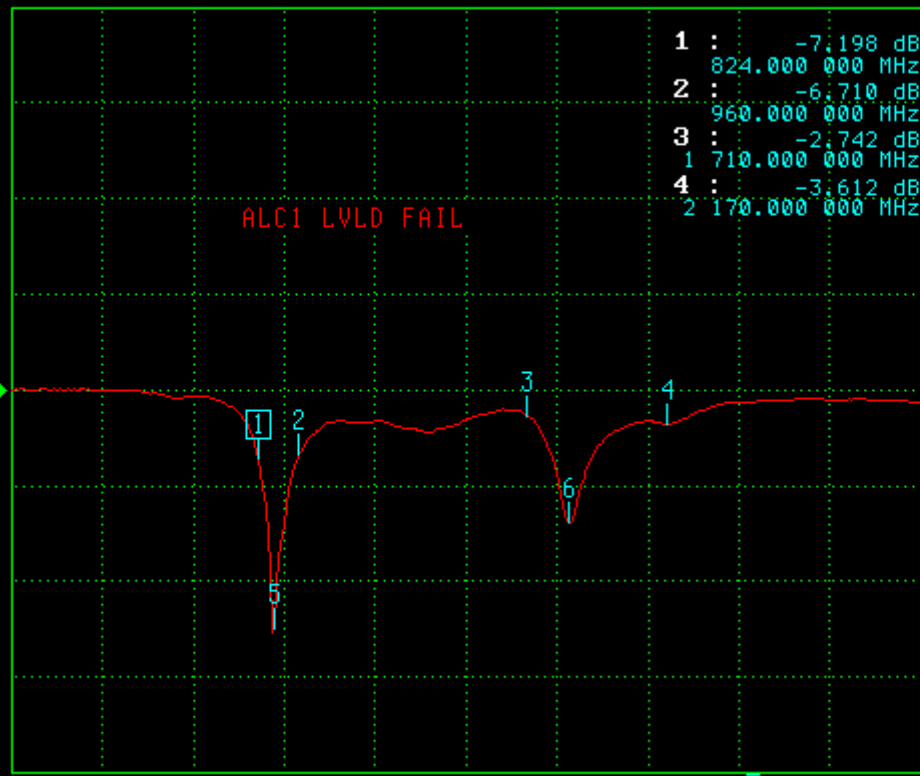
CH 1 - S11
REFERENCE PLANE

0.0000 mm

LOG MAGNITUDE

REF=0.000 dB

10.000 dB/DIV



10.000 000 MHz

3 000.000 000 MHz

5: 876.977000 MHz
-24.969 dB

6: 1.847077000 GHz
-13.915 dB

7: OFF

8: OFF

MARKER TO PEAK

▶ MORE

S11 FORWARD REFLECTION
CHN1

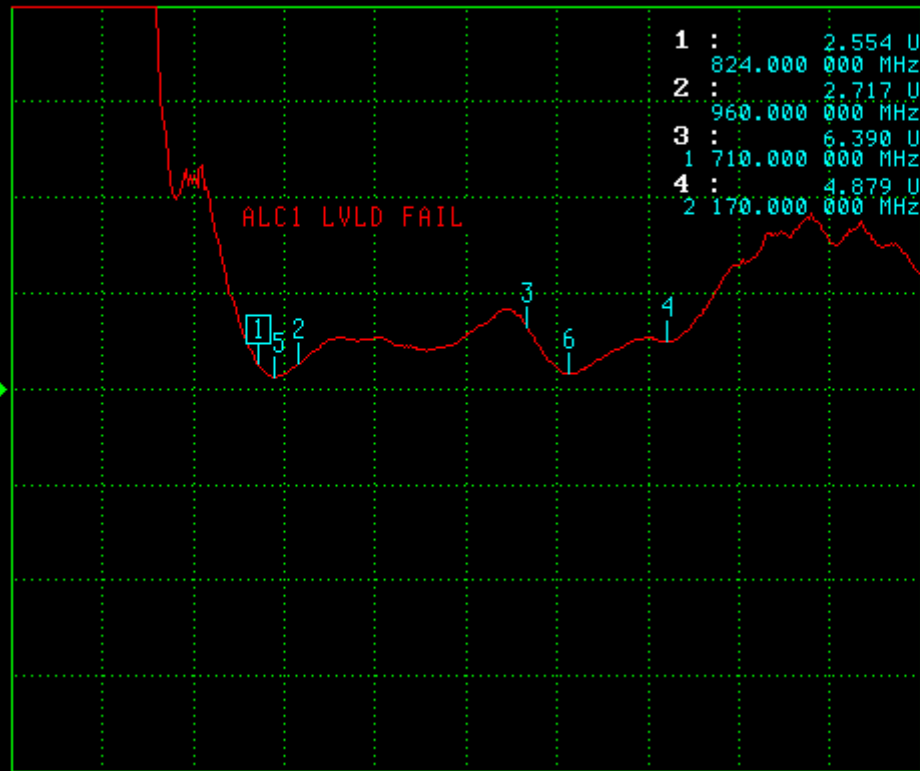
TRANSMISSION/REFLECTION

CH 1 - S11
REFERENCE PLANE
0.0000 mm

SWR

REF=0.000 pU

10.000 U/DIV



- 1 : 2.554 U
824.000 000 MHz
- 2 : 2.717 U
960.000 000 MHz
- 3 : 6.390 U
1 710.000 000 MHz
- 4 : 4.879 U
2 170.000 000 MHz

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- 2: 960.000000 MHz
2.717 U
- 3: 1.710000000 GHz
6.390 U
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MARKER TO PEAK

MORE

10.000 000 MHz

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