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# **INTRODUCTION**

## **WIFI External Antenn**

### **1. GENERAL DESCRIPTION**

Model No
WLAN-009-2.4G-SMA/M-Reverse

Below is a table summarizing the antenna design specification.

#### **1.1 Electrical Properties**

Parameter	Description
Frequency Band	2.4GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0:1
Note: Gain includes the cable loss	

#### **1.2 Mechanical Properties**

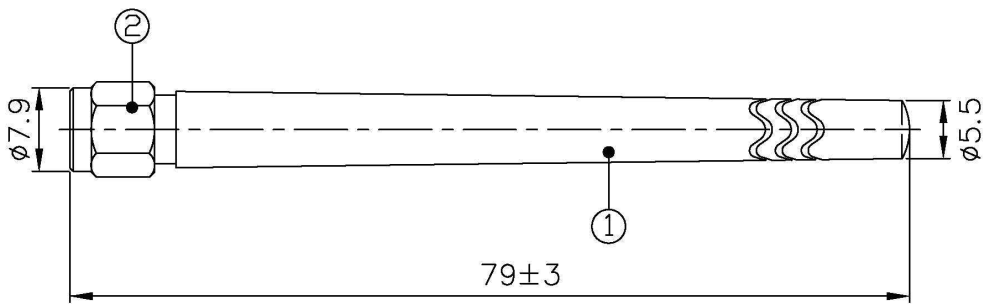
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 1800°(Male Reverse)
Antenna Dimensions	79mm±3
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C


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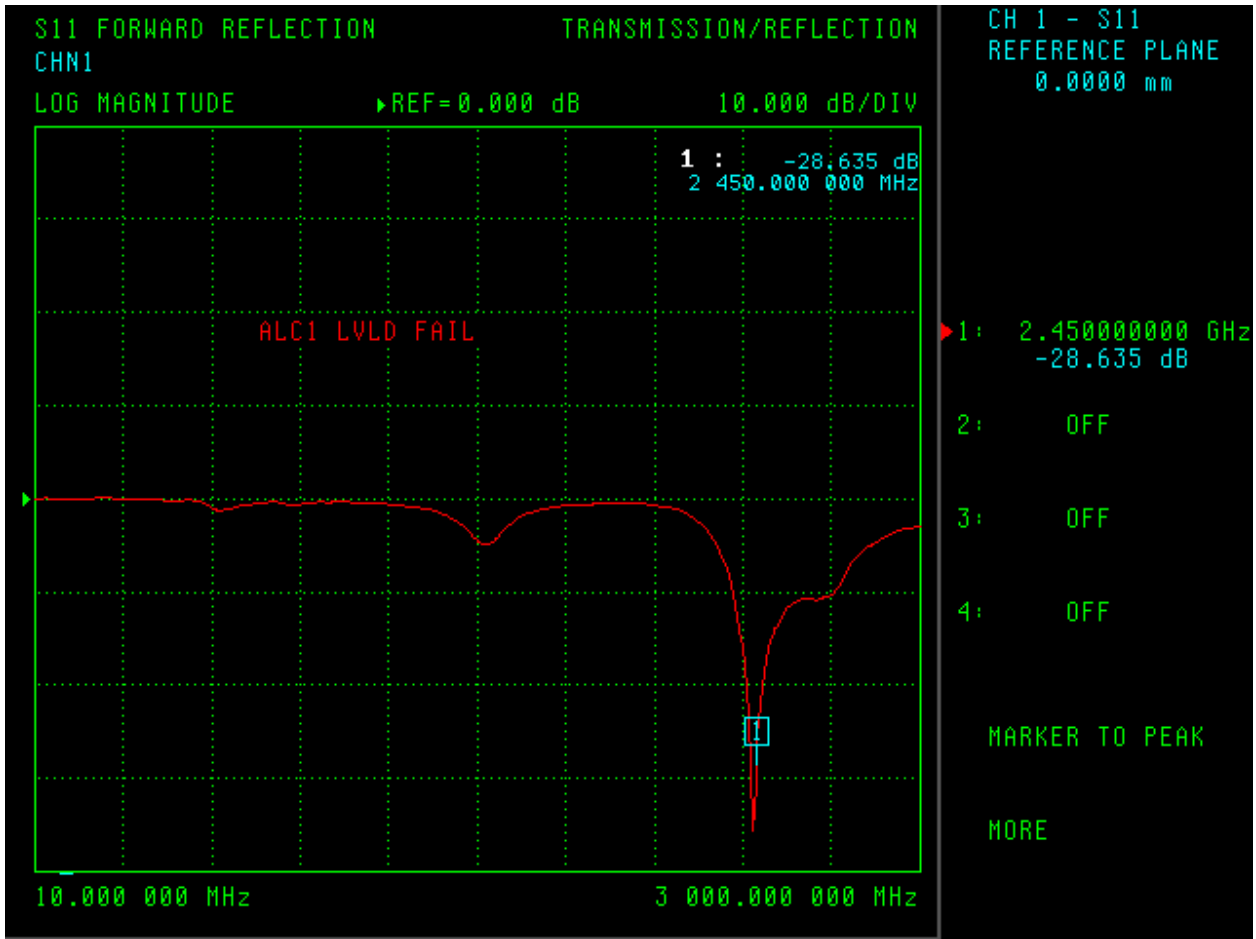
## 2. Appearance

NO.	NAME	FINISH	Q,TY
01	TOP	Black	01
02	SMA 180° (Male Reverse)	Nickel plating	01



 Third angle projection	CUSTOMER' S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
					2.4MHz	M/M		20110415
	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\frac{S}{\sqrt{V}}$	APPEARANCE					

### 3. Return Loss, V.S.W.R. and Smith Chart



S11 FORWARD REFLECTION  
CHN1

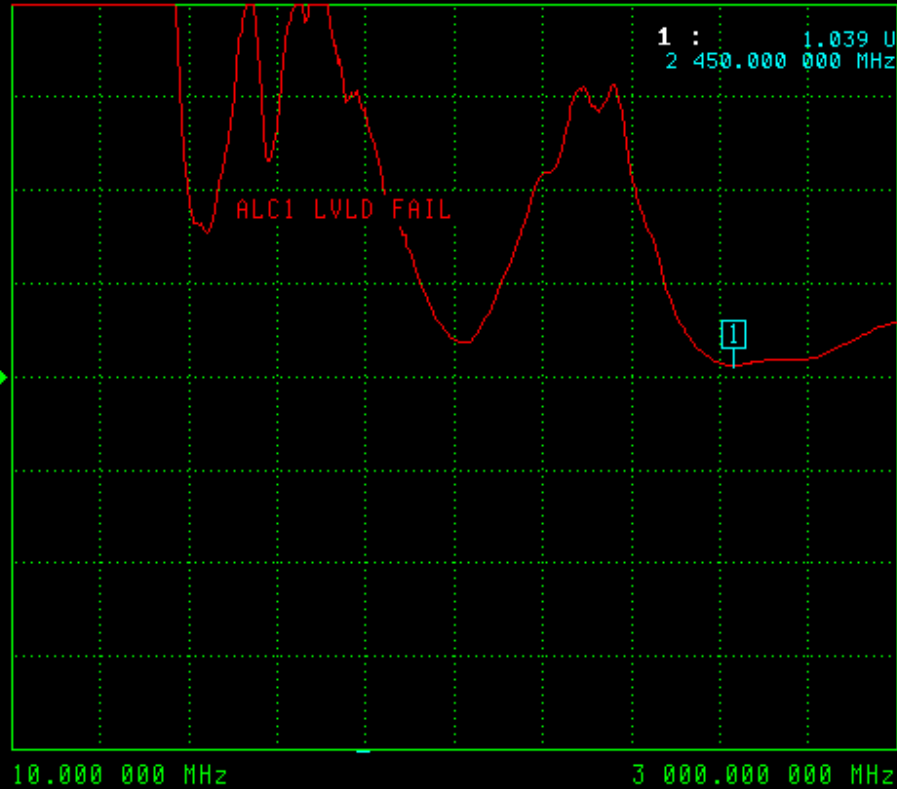
TRANSMISSION/REFLECTION

CH 1 - S11  
REFERENCE PLANE  
0.0000 mm

SWR

REF=0.000 pU

10.000 U/DIV



1: 2.450000000 GHz  
1.039 U

2: OFF

3: OFF

4: OFF

MARKER TO PEAK

MORE

