

## INTRODUCTION

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

### 1. GENERAL DESCRIPTION

Model No	AIR WAVE P/N
	EA-247C-5

Below is a table summarizing the antenna design specification.

#### 1.1 Electrical Properties

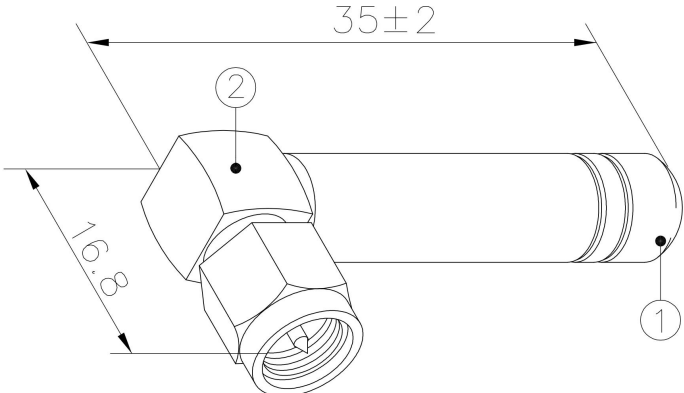
Parameter	Description
Frequency Band	800/900/1800/1900MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	4/1 $\lambda$ Dipole
Return Loss	Please See Data-1
V.S.W.R	4.1 : 1
Antenna Average Gain	0~3 dBi
Note: Gain includes the cable loss	



#### 1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Material	PU
Touch Type	Screw Type
Connector Type	SMA 90°(Male)
Antenna Dimensions	35mm $\pm$ 2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

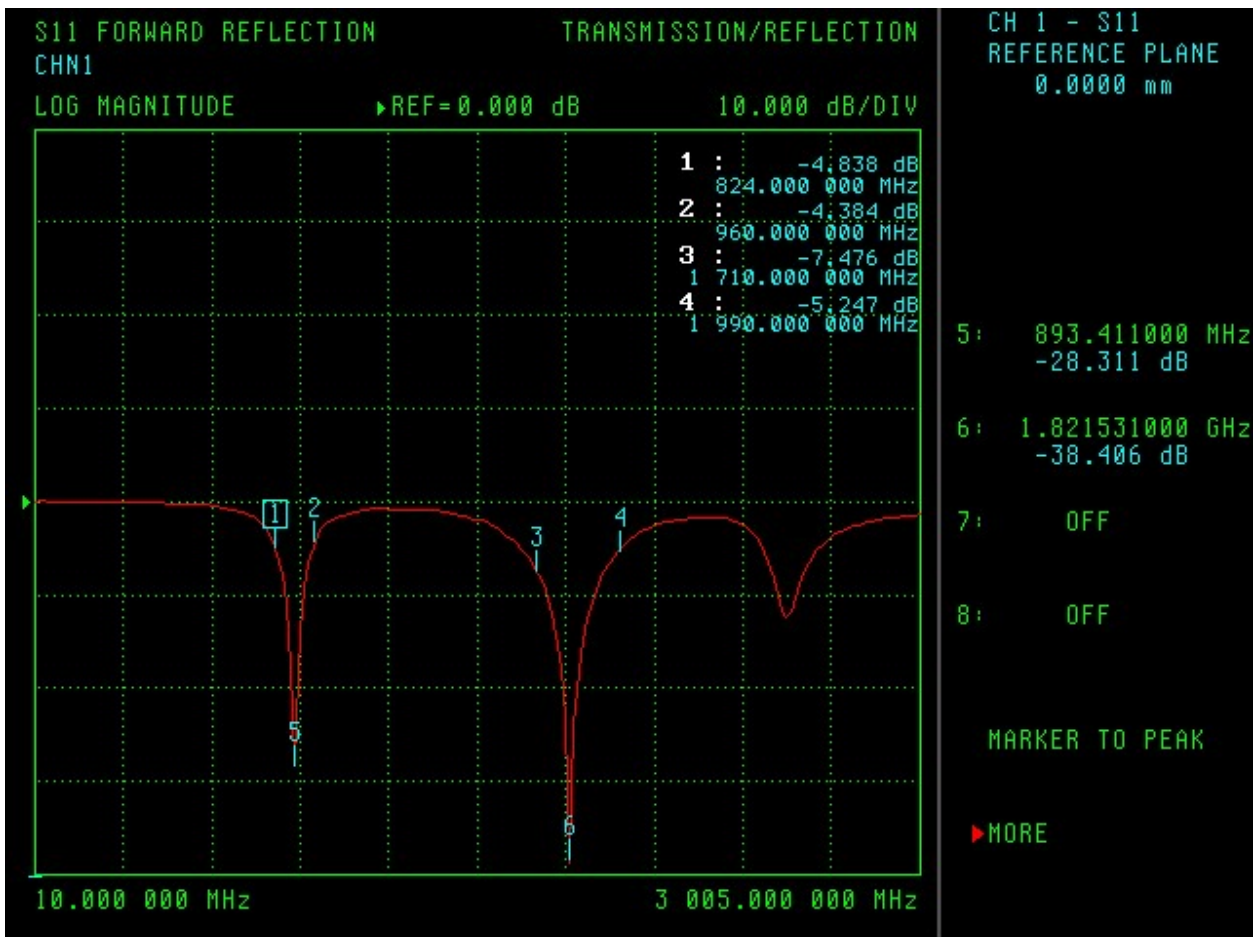
**2. Appearance**

NO.	NAME	FINISH	Q, TY
01	Core tube	Black	01
02	SMA 90° (Male)	Nickel plating	01

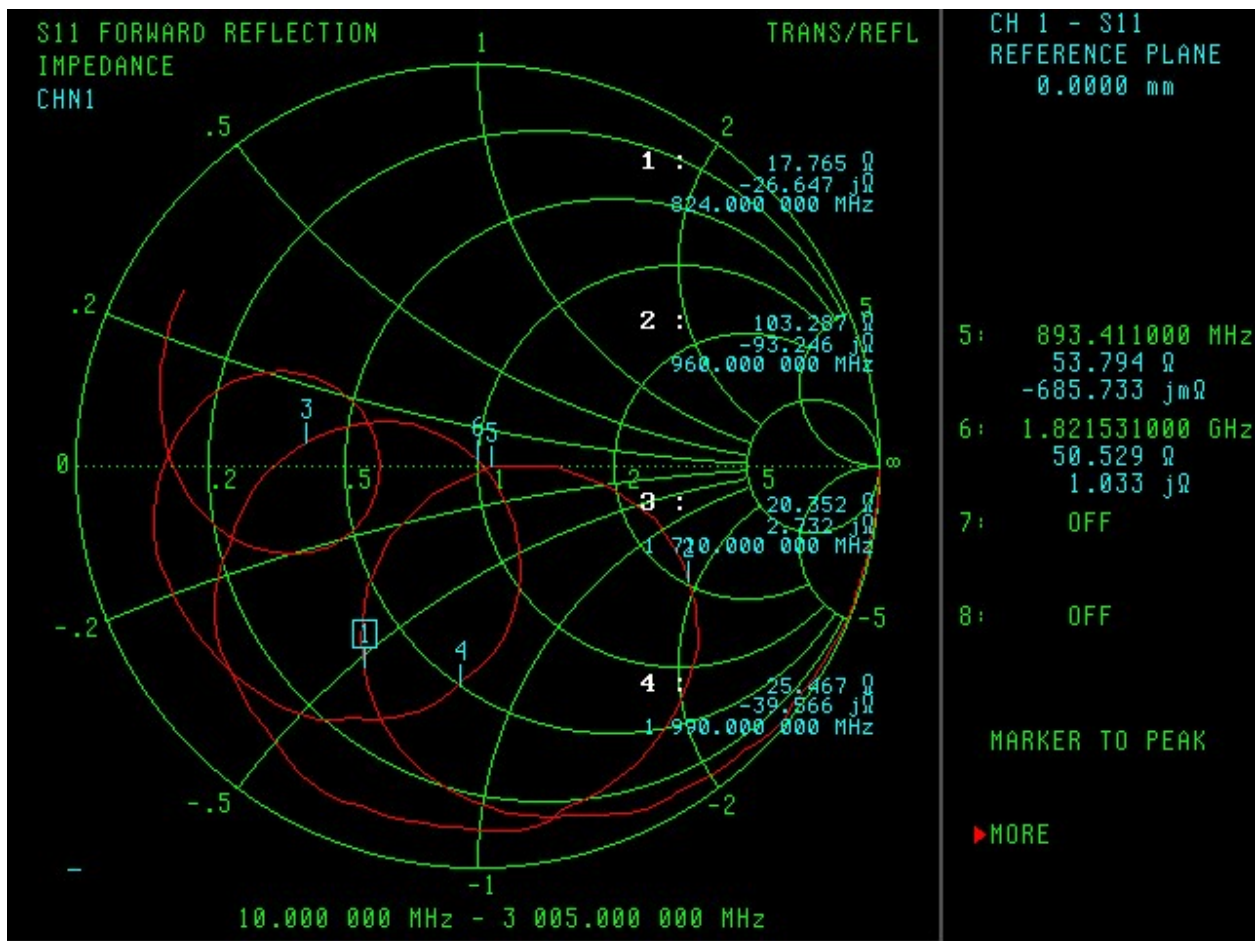
  

  

 Third angle projection	CUSTOMER' S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				800/900/1800/1900MHz	M/M		20120928	1
 晟輝科技股份有限公司 AIR WAVE CO., LTD.	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\frac{S}{\nabla}$	APPEARANCE	EA-247C-5				

**3. Frequency**







 ***AIR WAVE Co.,Ltd.***