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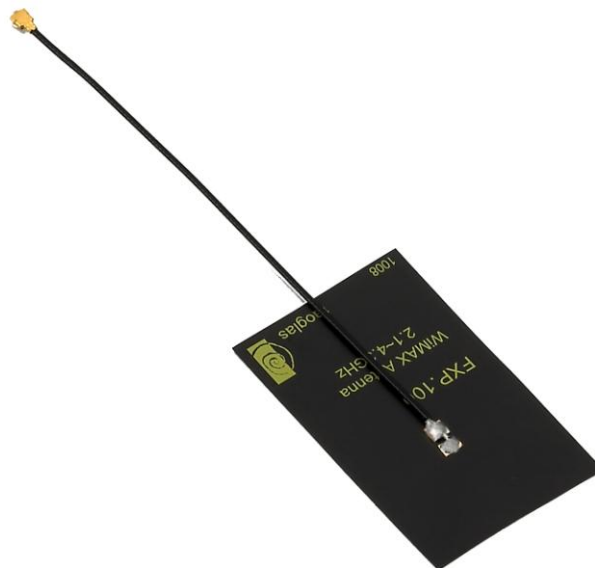
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Specification

Model No. : FXP100
Part No. : **FXP100.07.0100A**
Product Name : Flexible WiMAX antenna
Features : High Efficiency Wide-Band Antenna
31*53*0.2mm
International Patent#: US 2009/0189825 A1

RoHS ✓



REVISION STATUS

Version	Date	Page	Revision Description	Prepared	Approved
01	20 November 2008	All	New release	Matthias John, AHFR	



Specification

1. Introduction

This flexible wideband WiMAX antenna has been designed by DIT Antenna High Frequency and Research Centre in Dublin, Ireland. Taoglas and DIT have developed this range of solutions following years of expertise and collaboration in design of high performance antennas.

1.1 Key Advantages

1. Highest efficiency in small size 31*53*0.2mm.
2. Flexible – can be fitted to curved surfaces
3. Highly reliable and robust
4. Rectangular shape - Easy to integrate. Other antenna designs come in irregular shapes and sizes making them hard to integrate.

2.0 Electrical Characteristics

No	Parameter	Specification
1	Working Frequency	2100~4320MHz
2	Dimensions	31*53*0.2mm
3	VSWR	2 max (depends on the special environment)
4	Polarization	Linear
5	Impedance	50 Ω
6	Operating Temperature	-40°C~+105°C
7	Termination	Cu (Environmentally Friendly Pb Free)

* Actual Electrical value will depend on customer ground plane size



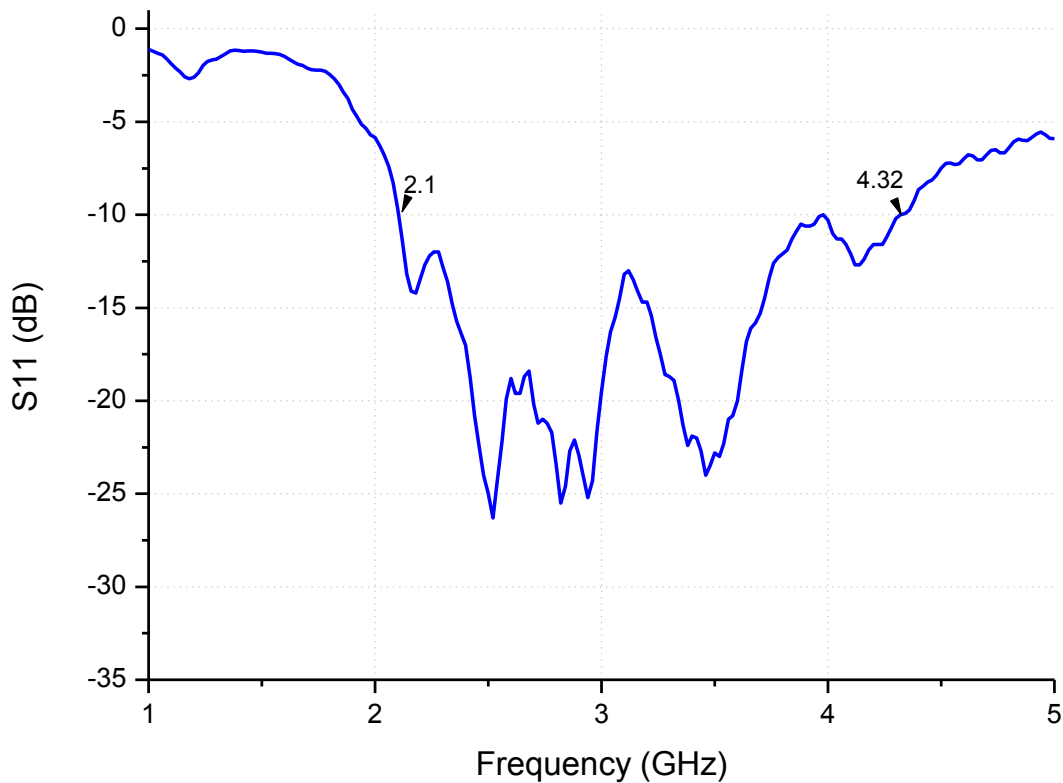
3.0 Key Antenna Performance Indicators

Measured in chamber

Gain (Ground Length: 33mm, Coax Cable Length: 150mm, UF-L Connector)

WiMAX Antenna peak gain parameter Summary												
Band (GHz)	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3
Peak Gain (dBi)	1.2	1.9	2.1	2.5	2.6	3.2	2.1	1.3	1.5	1.2	1.5	2.6

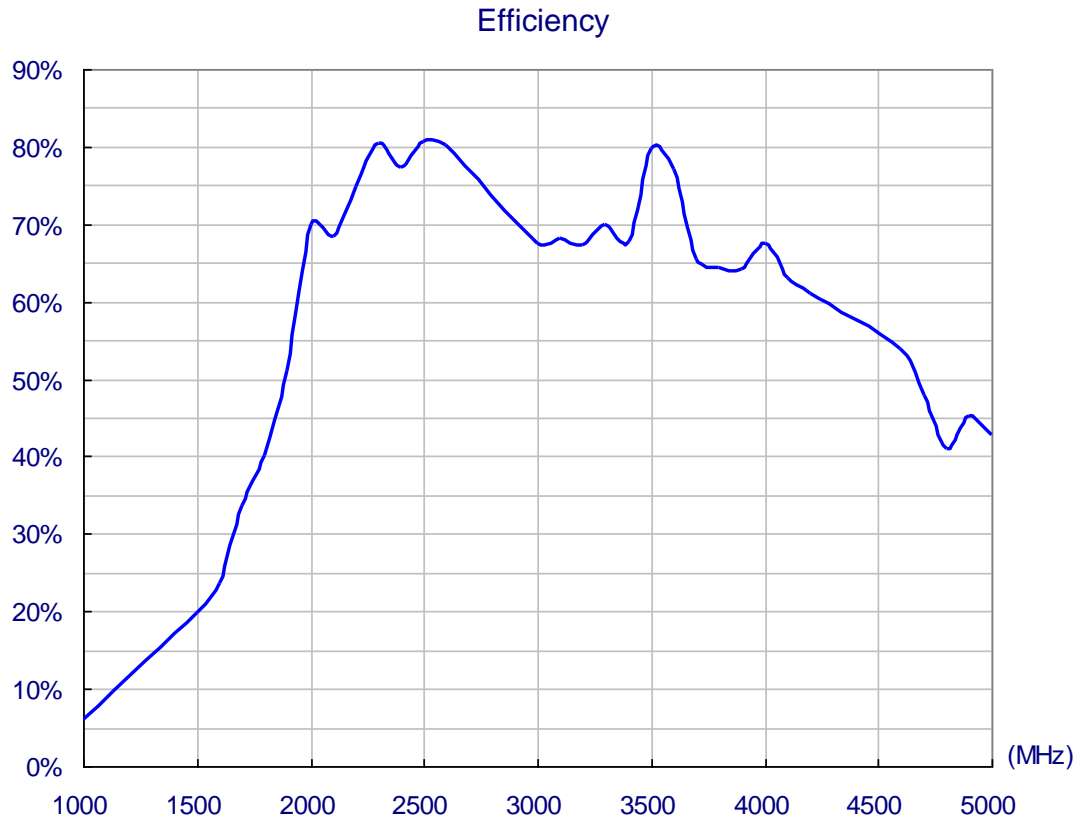
Measured S11





Specification

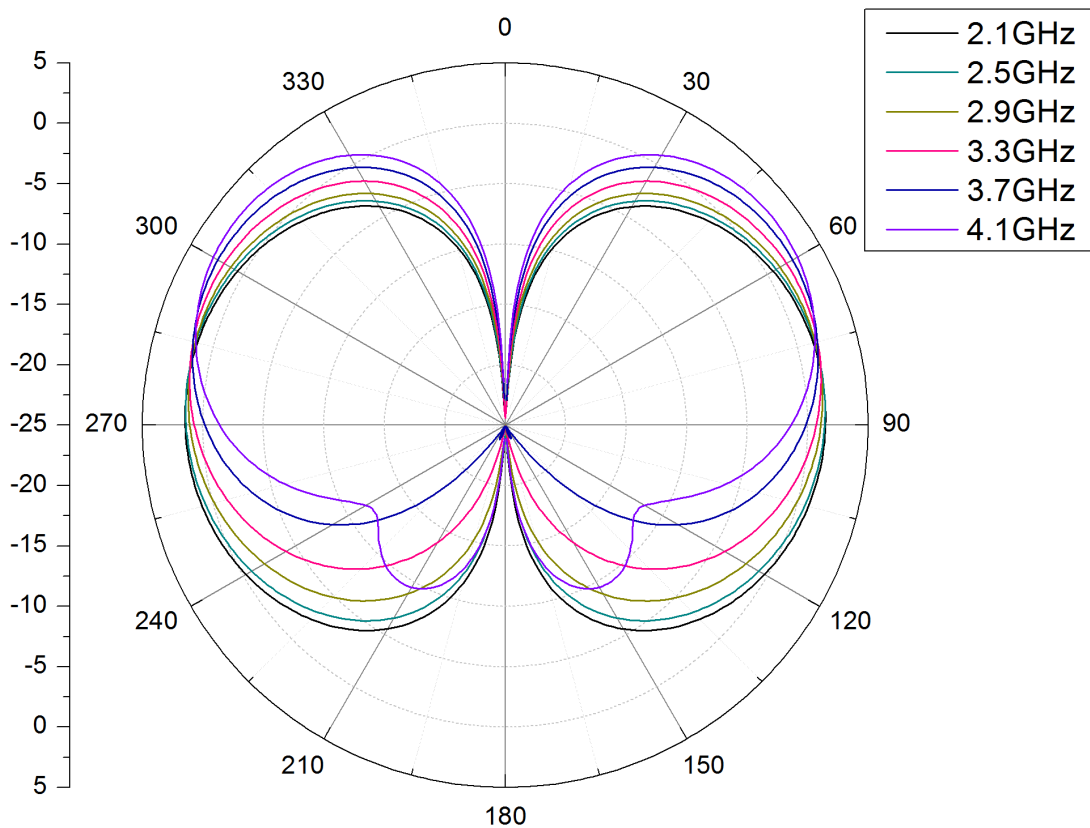
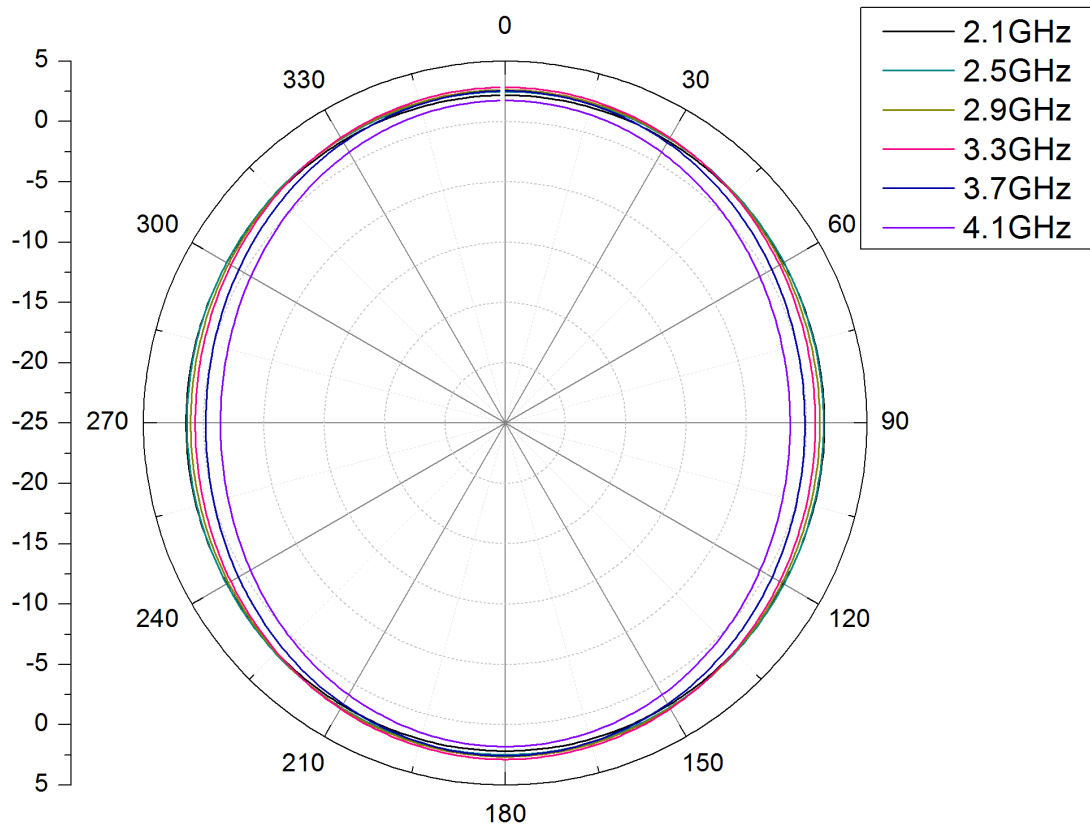
Radiation Efficiency





Specification

Radiation Pattern

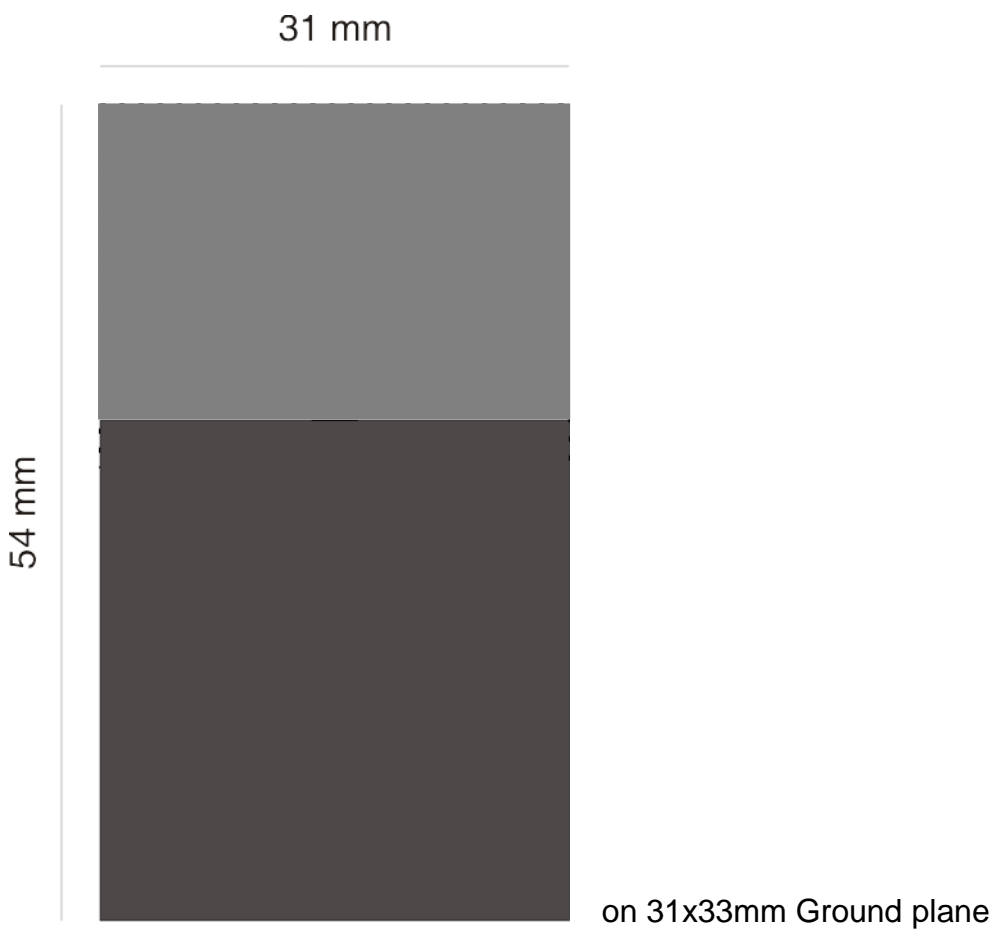
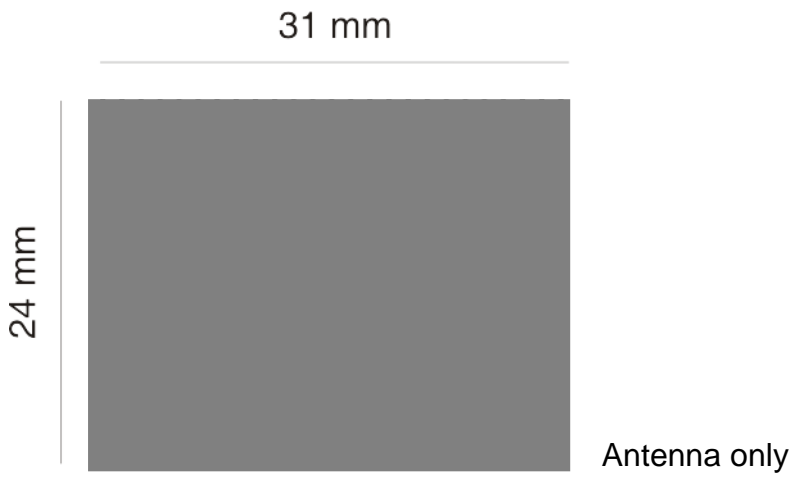




Specification

4.0 Drawings

4.1 Shape and Dimensions

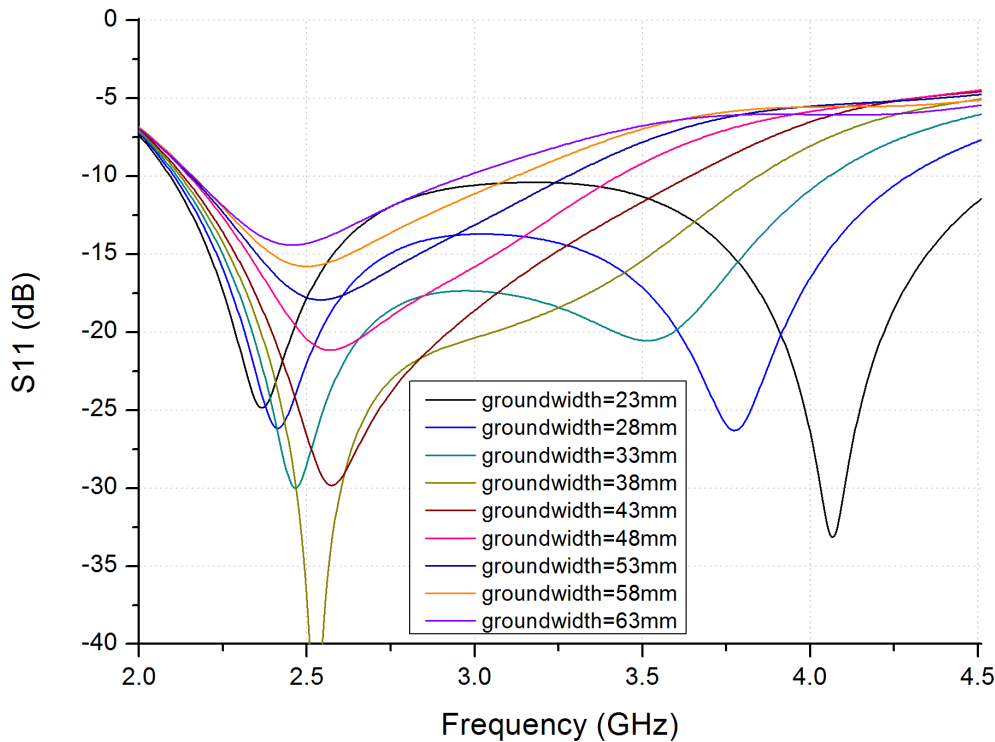




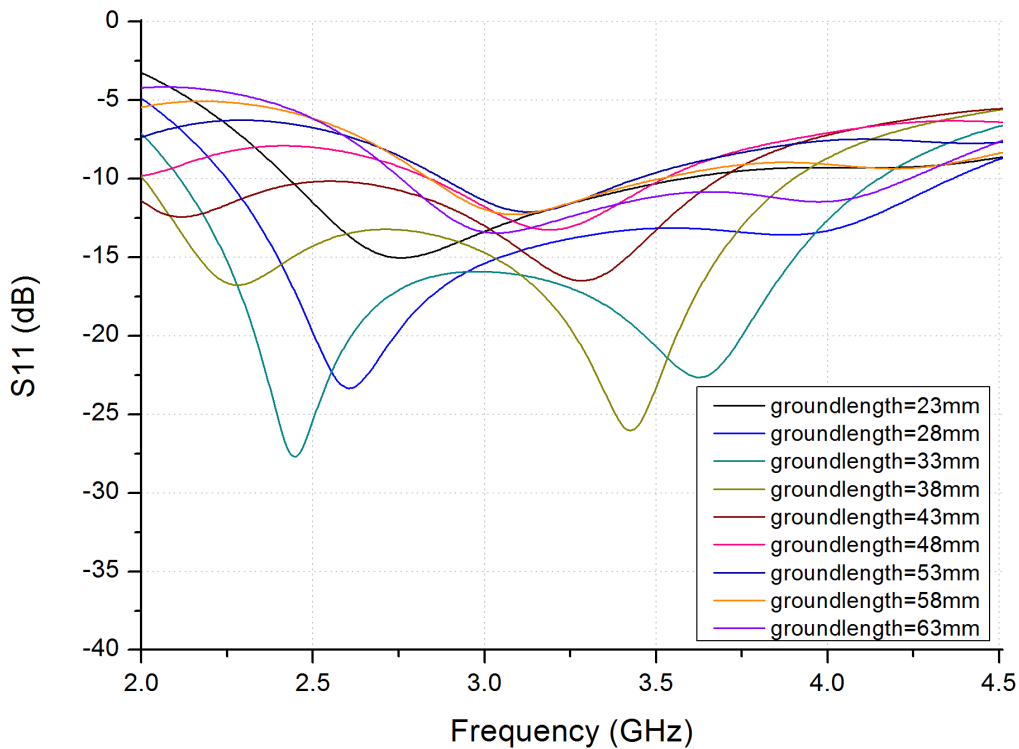
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5.0 Sensitivity to Ground plane Dimensions (Simulation)

5.1 Ground plane Width W

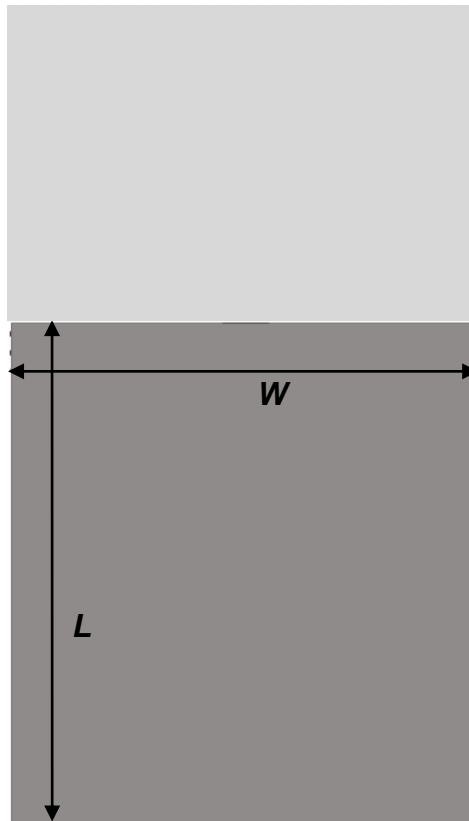


5.2 Ground plane Length, L





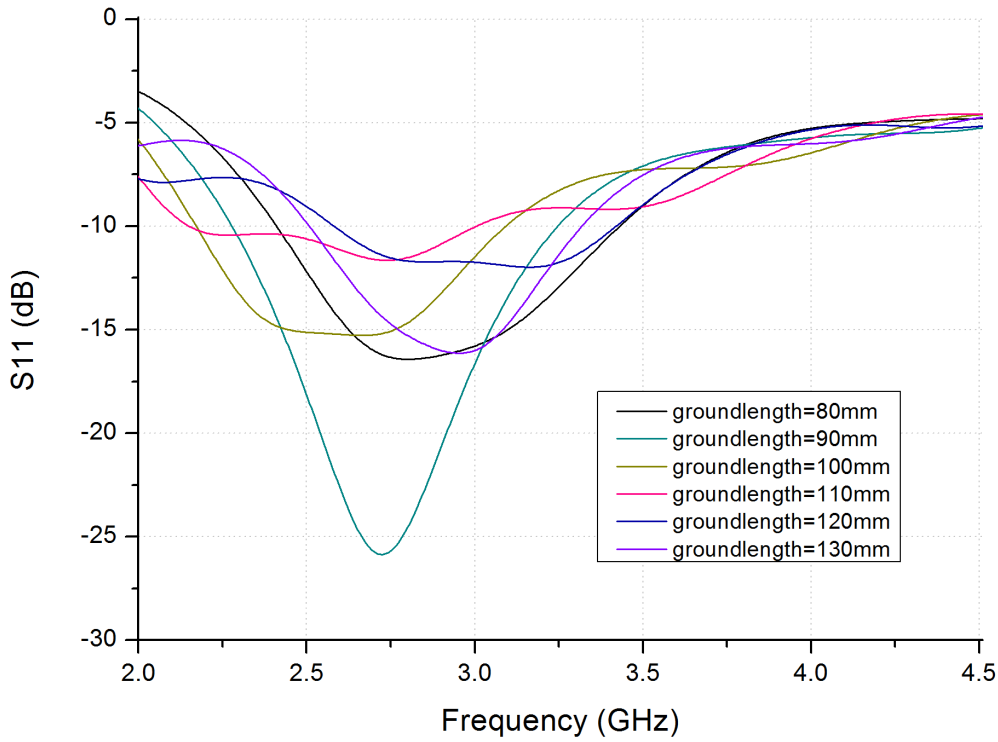
5.3 Handset Ground plane, 45mm × 110mm





Specification

5.3.1 Sweeping length L , ($W=45\text{mm}$)



5.3.2 Sweeping width W ($L=110\text{mm}$)

