

G605T Printed Antenna Specification

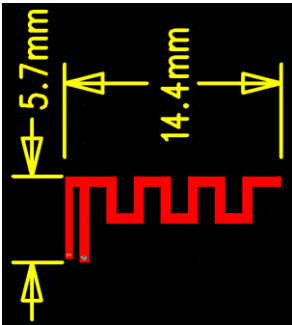
一、Design Specifications:

Frequency Band	2.412~2.482GHz
Antenna Radiation Efficiency (excluding port loss)	>60%
Gain G	>1dBi(not exceeding 2 dBi)
Isolation	<-10dB

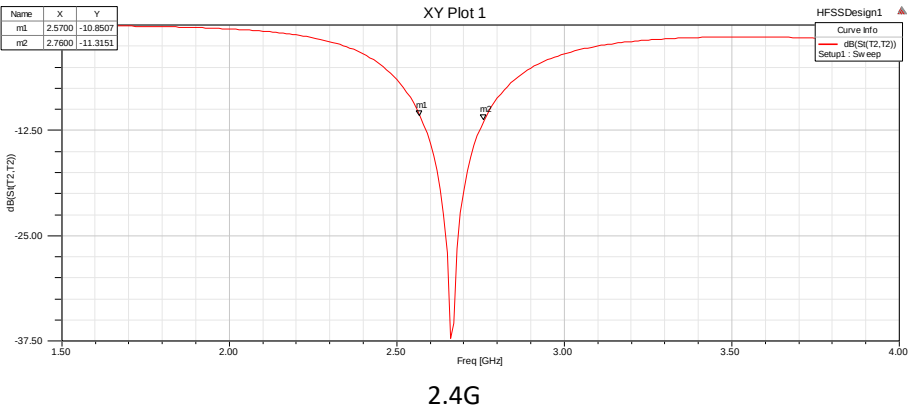
二、Antenna Design Specifications

Considering the product’s operating environment and design constraints, a nearly omnidirectional planar IFA antenna is adopted. Modeling and simulation are performed based on HFSS.

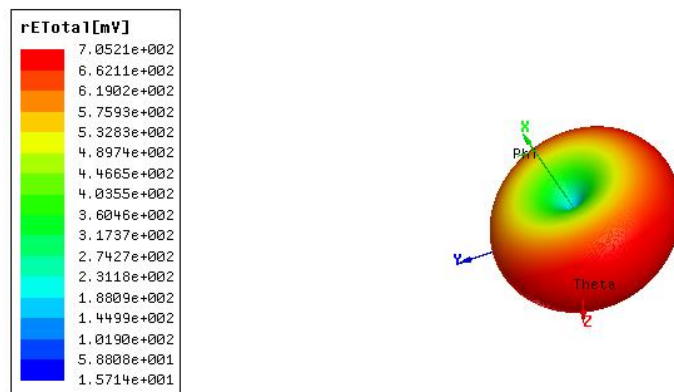
1. Design Specifications



2. Specifications



3. Radiation Pattern



2.4G

4. Radiation Parameters

Antenna Parameters:

Quantity	Freq	Value
Max U	2.4GHz	0.00065957 W/sr
Peak Directivity		1.6417
Peak Gain		1.5012
Peak Realized Gain		0.82886
Radiated Power		0.0050487 W
Accepted Power		0.0055214 W
Incident Power		0.01 W
Radiation Efficiency		0.91439
Front to Back Ratio		1.0304
Decay Factor		0

2.4G

3. Sample Testing

After prototyping, passive testing is conducted using a network analyzer. The test results are as follows:

