

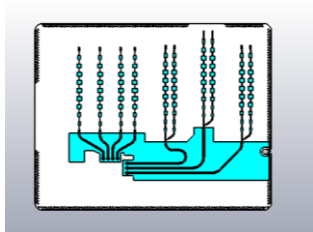
# Antenna Specifications for Radar Sensor

## (For Millimeter wave corner Radar Sensor)

### 1. General Specifications

Items	Specifications
Antenna Type	Microstrip antenna
Frequency Band	76 to 78GHz
VSWR	2.0 max
Gain	15dBi max

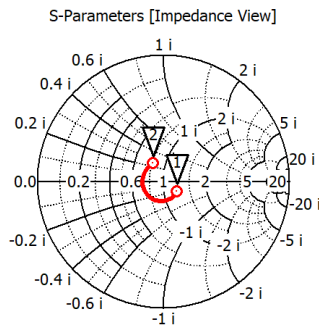
### 2. Antenna Model



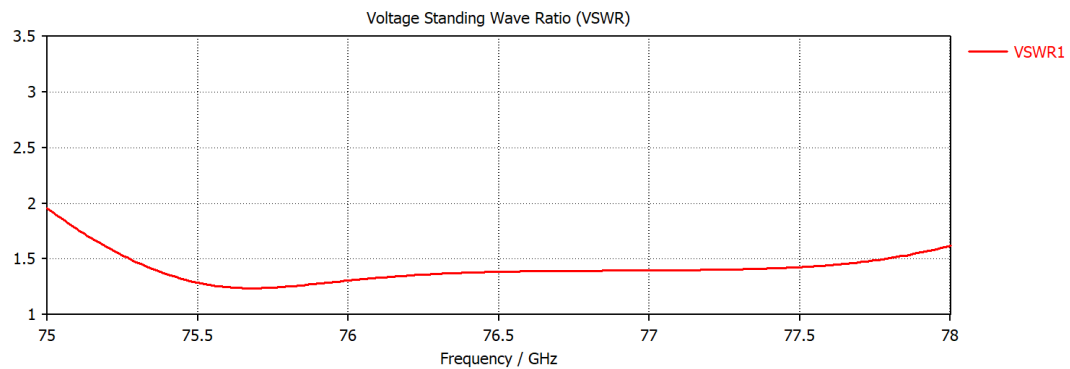
### 3. VSWR & Radiation Pattern

#### S11 & VSWR

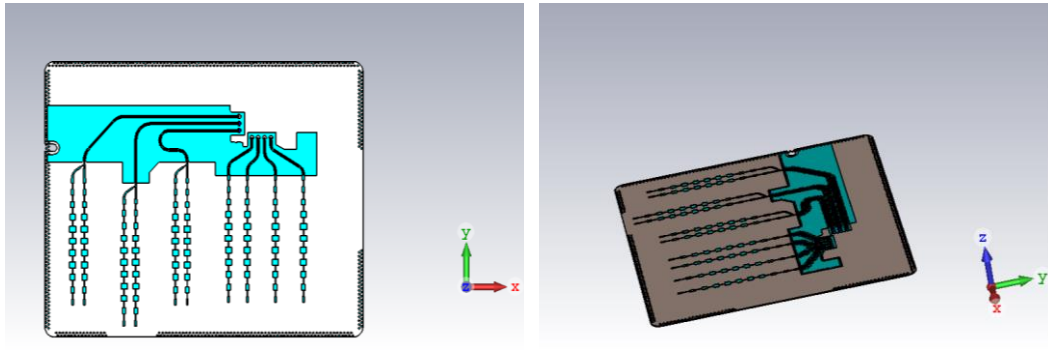
○ 76 (124, -18.9) Ohm  
 ● 77 (82.8, 24.7) Ohm  
 Frequency / GHz



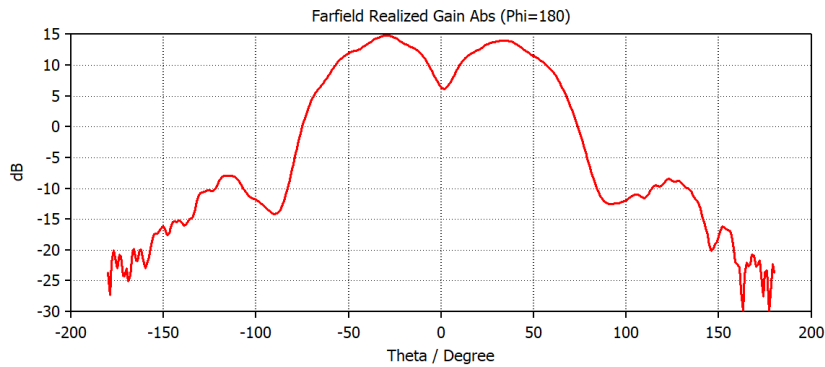
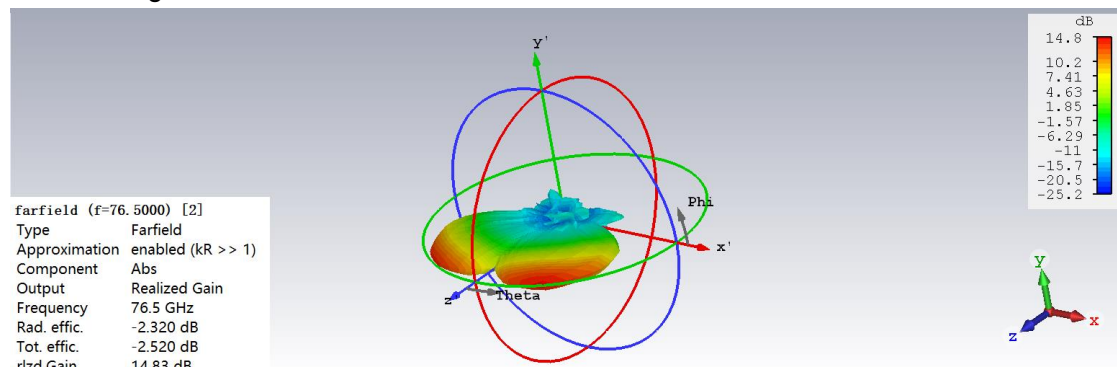
Q 76.000000 ( 124.019549, -18.888710 ) Ohm  
 Q 77.000000 ( 82.751399, 24.734420 ) Ohm



## Axis of Radiation Pattern



## Radiation Pattern -3D Transmitting Antenna



— farfield (f=76.5000) [2]

Frequency = 76.5 GHz  
 Main lobe magnitude = 14.8 dB  
 Main lobe direction = -29.0 deg.  
 Angular width (3 dB) = 39.8 deg.  
 Side lobe level = -0.8 dB

## Receiving Antenna

