

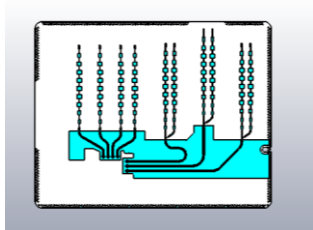
Antenna Specifications for Radar Sensor

(For Millimeter wave corner Radar Sensor)

1. General Specifications

Items	Specifications
Antenna Type	Microstrip antenna
Frequency Band	76~77GHz
VSWR	2.0 max
Gain	15dB max

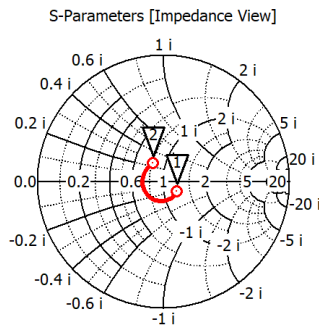
2. Antenna Model



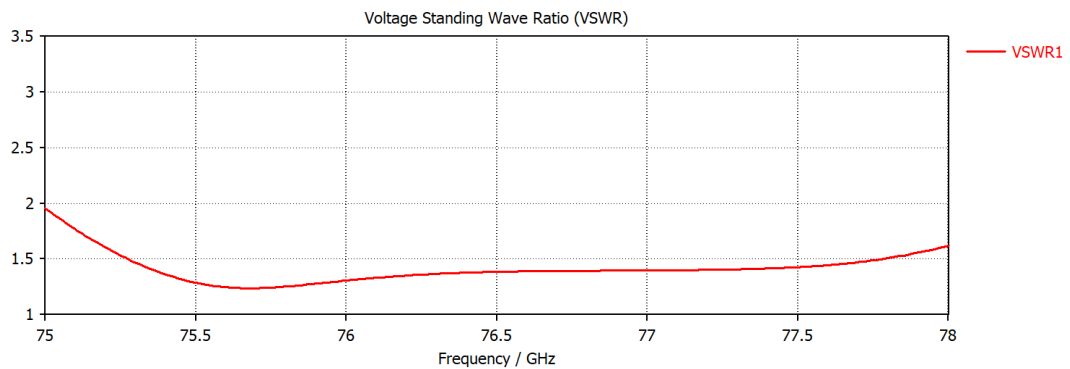
3. VSWR & Radiation Pattern

S11 & VSWR

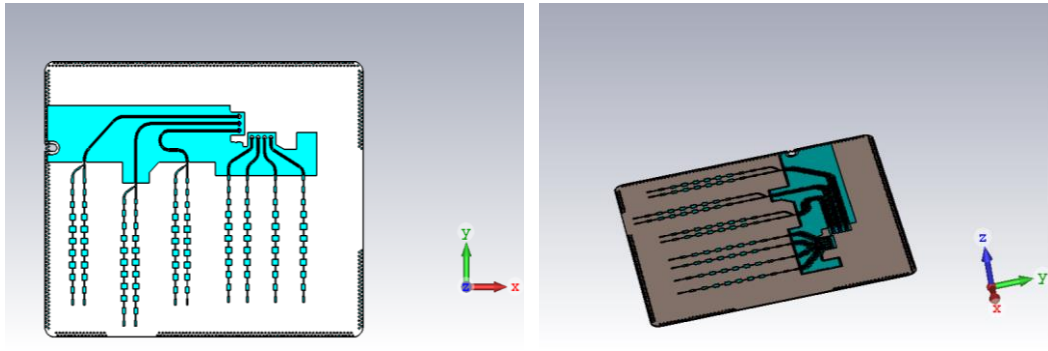
○ 76 (124, -18.9) Ohm
 ● 77 (82.8, 24.7) Ohm
 Frequency / GHz



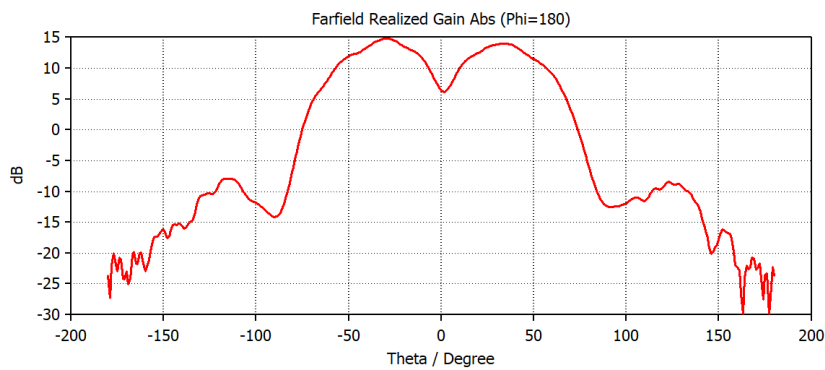
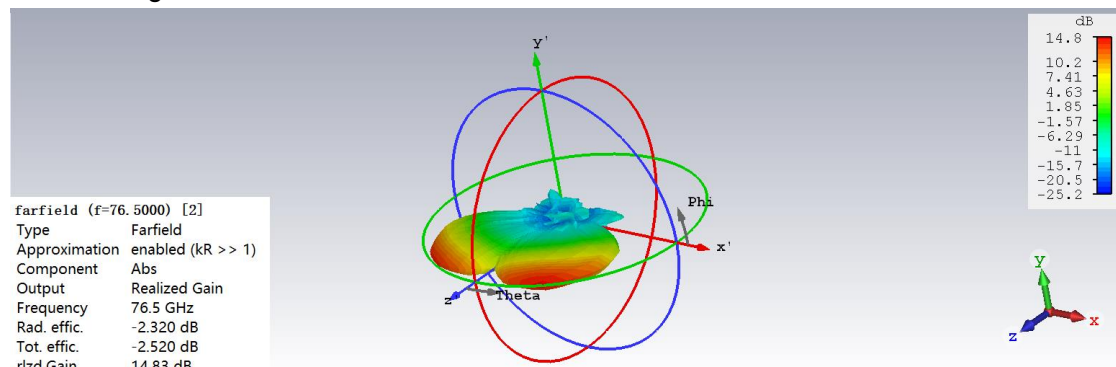
Q 76.000000 (124.019549, -18.888710) Ohm
 Q 77.000000 (82.751399, 24.734420) Ohm



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

