

B122-019 Vehicle mounted millimeter wave radar  
Antenna Technical Information

B122-019 车载毫米波雷达  
天线技术信息

### 1. 描述

#### 1. Description

型号 CUBT76500SS110G02 是一款 76-77GHz 的微带天线。标称增益是 12.65dB，76.5GHz，E 面上 13.3 度的典型半功率波束宽度和 H 面上 127.9 度的典型值。天线支持线性极化波。

The model CUBT76500SS110G02 is a 76-77GHz microstrip antenna. The nominal gain is 12.65dB, 76.5GHz, with a typical half power beamwidth of 13.3 degrees on the E-plane and a typical value of 127.9 degrees on the H-plane. The antenna supports linearly polarized waves.

### 2. 特征

#### 2. Features

- 高增益 **gain**
- 线性极化 **linear polarization**

### 3. 应用

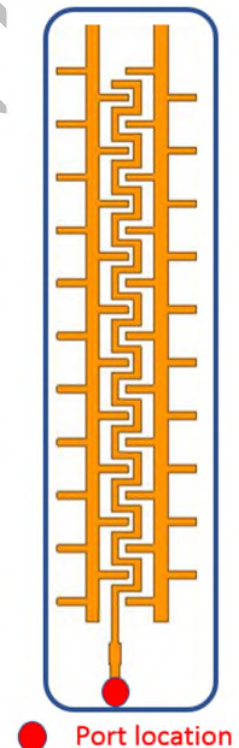
#### 3. Application

- 车载雷达 **vehicular radar**

### 4. 电气特性:

#### 4. Electrical characteristics:

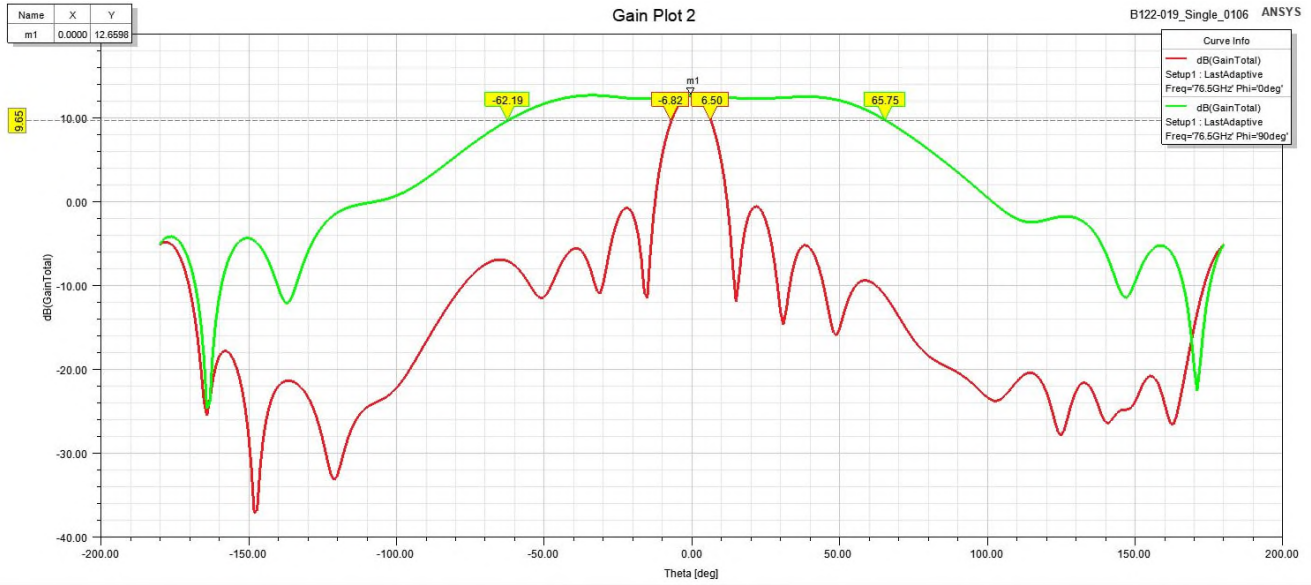
参数 parameter	最小值 minimum value	典型值 Typical value	最大值 Maximum value
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频率 frequency		76.5 GHz	
增益 gain		12.65 dB	
极化 polarization	线性 <b>linear</b>		
波束宽度 E 面 Beam width E- plane		13.3 deg	
波束宽度 H 面 Beam width H- plane		127.9 deg	
旁瓣 E 面 Side lobe E- plane		13.22 dB	
旁瓣 H 面 Sidelobe H- plane	X		
回损 Return Loss		-28.84 dB	

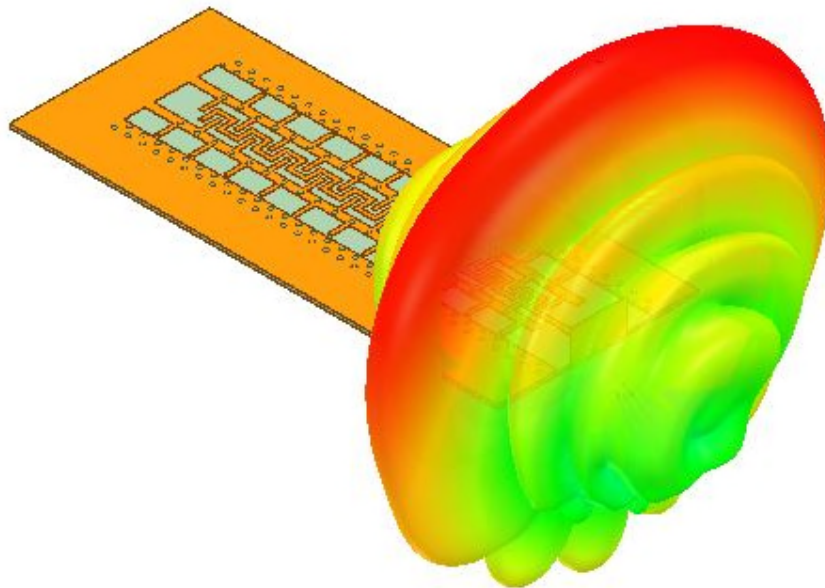
5. 典型天线 2D 模型 @ 76.5 GHz

5. Typical Antenna 2D Model @ 76.5 GHz



典型天线 3D 模型@ 76.5 GHz

Typical Antenna 3D Model @ 76.5 GHz



Item	Specification
RF-Material	TSM-DS3B (5mil)(DK:2.95)(DF:0.001)
Size	19.51 mm(L) × 4 mm(W) × 0.03556 mm(T)