

## EDC15S Antenna specification sheet

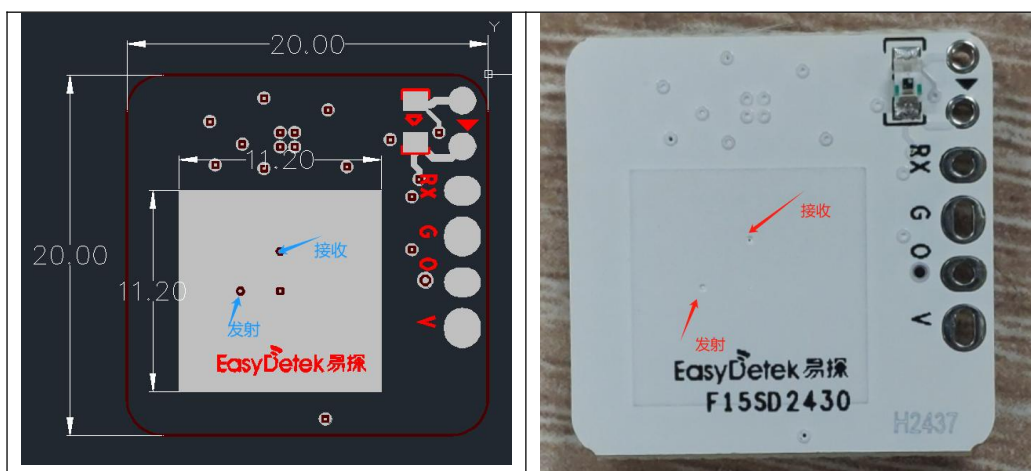
### Characteristic

1. Onboard microstrip patch antenna, integrated transceiver antenna;
2. Antenna metal patch: 11.2 \* 11.2mm;
3. Antenna GND: 20 \* 20mm;
4. Low energy loss, high antenna efficiency, and good consistency;
5. Low and high temperature environments have minimal impact and high stability;

### Application

Mainly used for antenna applications in the 5.8GHz frequency band

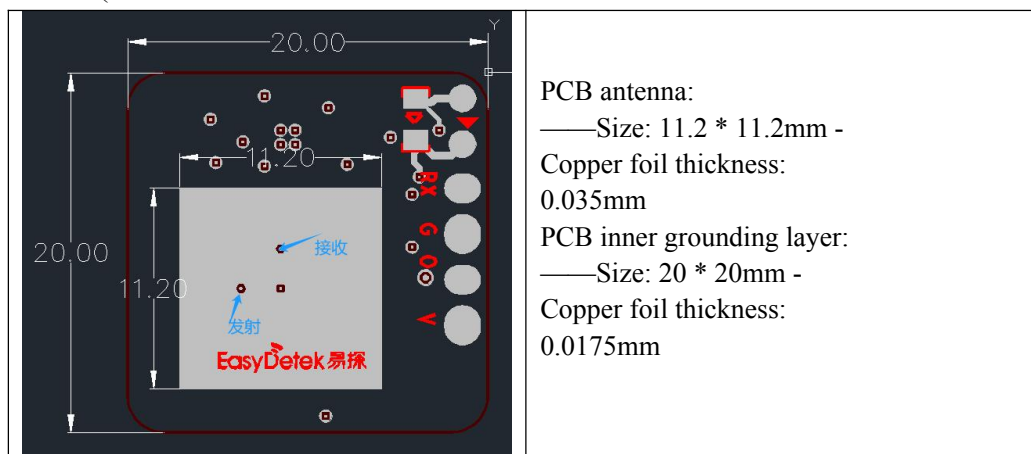
### Structure



### Size

- 1、Antenna size 11.2 \* 11.2mm; Antenna PCB copper foil thickness: 0.035mm;
- 2、Back of antenna (CB inner grounding layer) length and width: 20 \* 20mm;

Thickness of copper foil in PCB grounding layer:



PCB antenna:

——Size: 11.2 \* 11.2mm -

Copper foil thickness:  
0.035mm

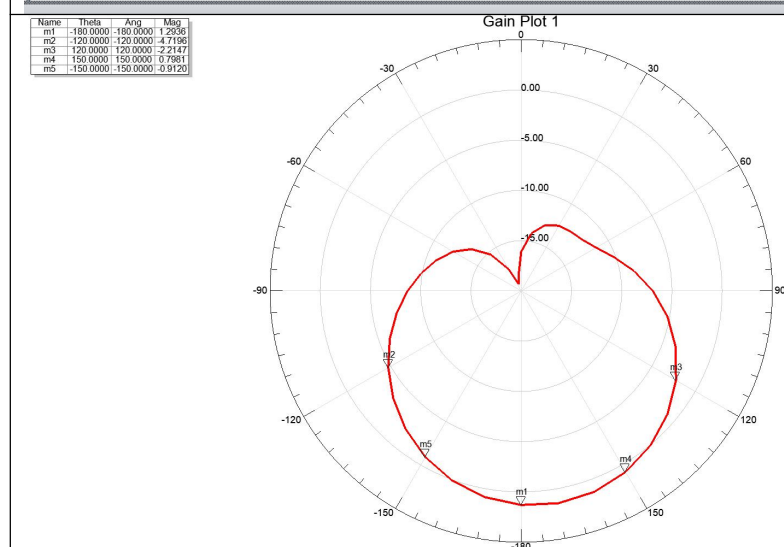
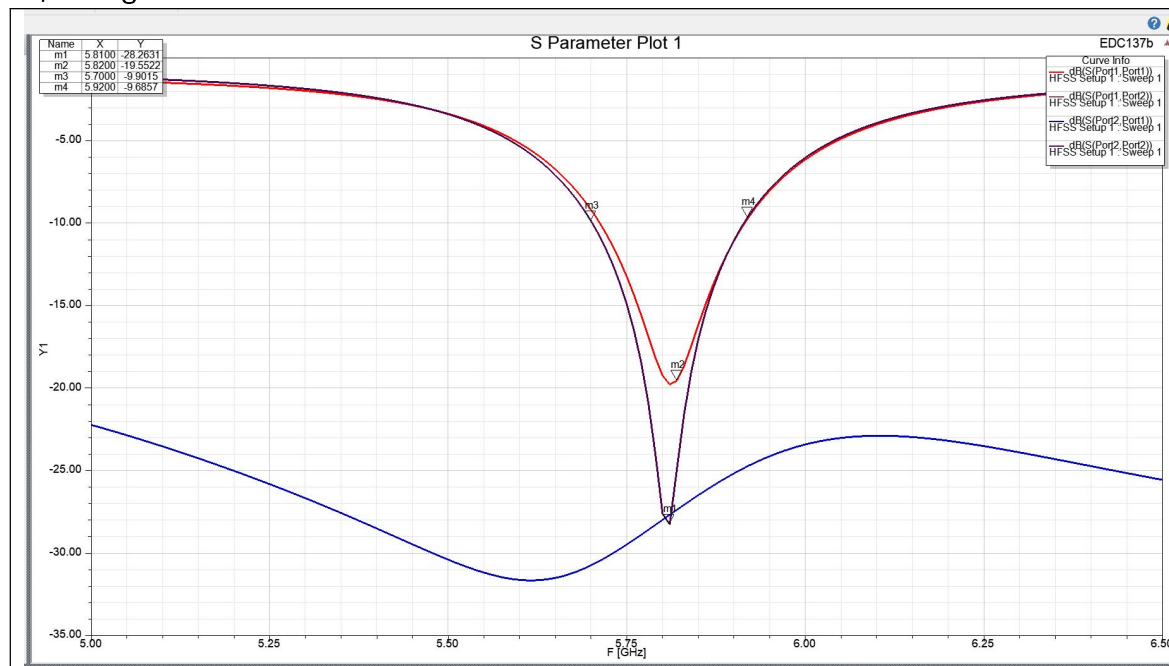
PCB inner grounding layer:

——Size: 20 \* 20mm -  
Copper foil thickness:  
0.0175mm

## Electrical characteristics

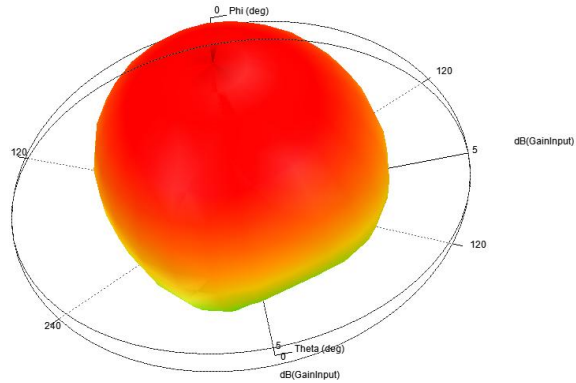
EDC15F antenna	参数范围/Parameter range
工作频率范围 Working Frequency	5725MHz-5825MHz
初始频段 (GHz)	5800MHz
带宽 Band Width	CW > 1MHz
阻抗 Impedance	50 $\Omega$
增益 Gain(dBi)	Max 1.4dBi
驻波比 VSWR	>2
工作温度 Operation Temperature	-20~85℃

## 2D/3D gain chart





Gain Plot 2



## 2D/3D Simulation Data Sheet

S11:5.81GHz @-28dBi

Gain: max1.4dBi

Welding, packaging, and storage environment

1. Due to being an onboard planar antenna, it follows the entire radar sensor as a whole and cannot be separated separately; All the soldering is directly pressed together during the PCB board manufacturing process, without the need for separate soldering;
2. Packaging and storage environment, refer to physical products.



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