

深圳市易探科技有限公司

Shenzhen EasyDetek Technology Co., Ltd

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EDC116 Antenna specification sheet

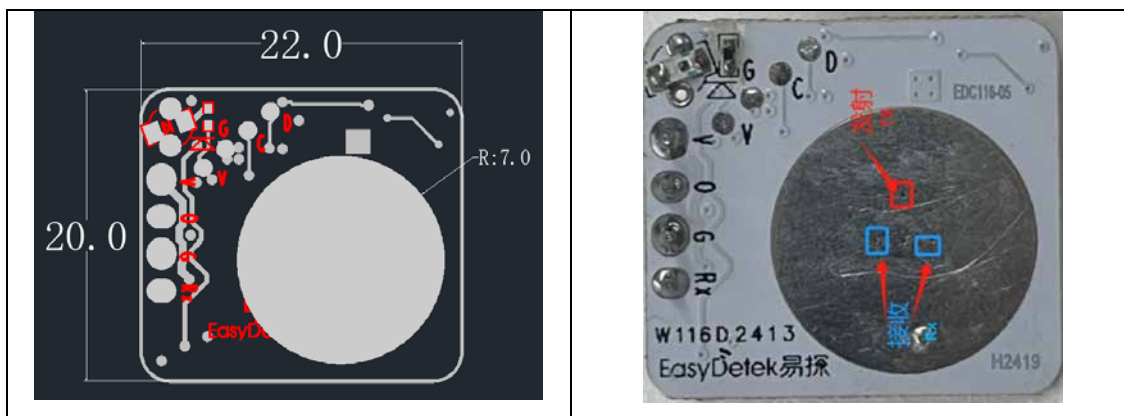
Characteristic

- 1、Onboard microstrip patch antenna, integrated transceiver antenna;
- 2、Antenna metal patch: $R=7\text{mm}$;
- 3、Antenna GND: $20*22\text{mm}$;
- 4、Low energy loss, high antenna efficiency, and good consistency;
- 5、Low and high temperature environments have minimal impact and high stability;

Application

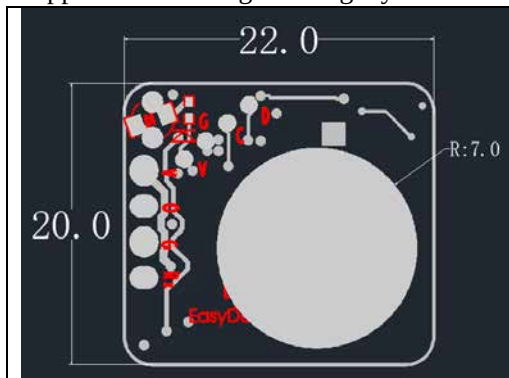
Mainly used for antenna applications in the 5.8GHz frequency band

Structure



Antenna size

- 1、Antenna size radius: 7mm;
- 2、Antenna PCB copper foil thickness: 0.035mm ;
- 3、Antenna back (PCB inner ground layer) length and width: $20*22\text{mm}$;
- 4、Thickness of copper foil in PCB grounding layer: 0.0175mm ;



PCB antenna:

- Antenna size radius: 7mm
- Copper Foil Thickness: 0.035mm

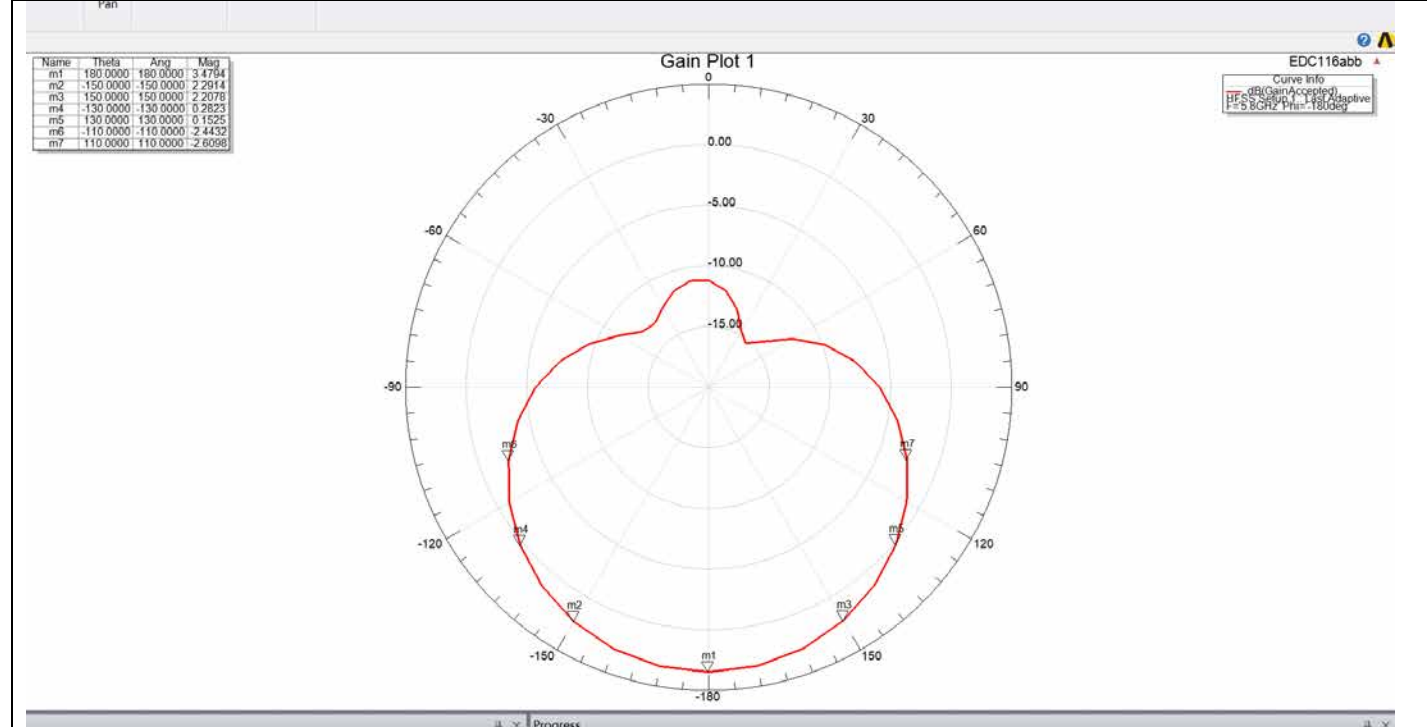
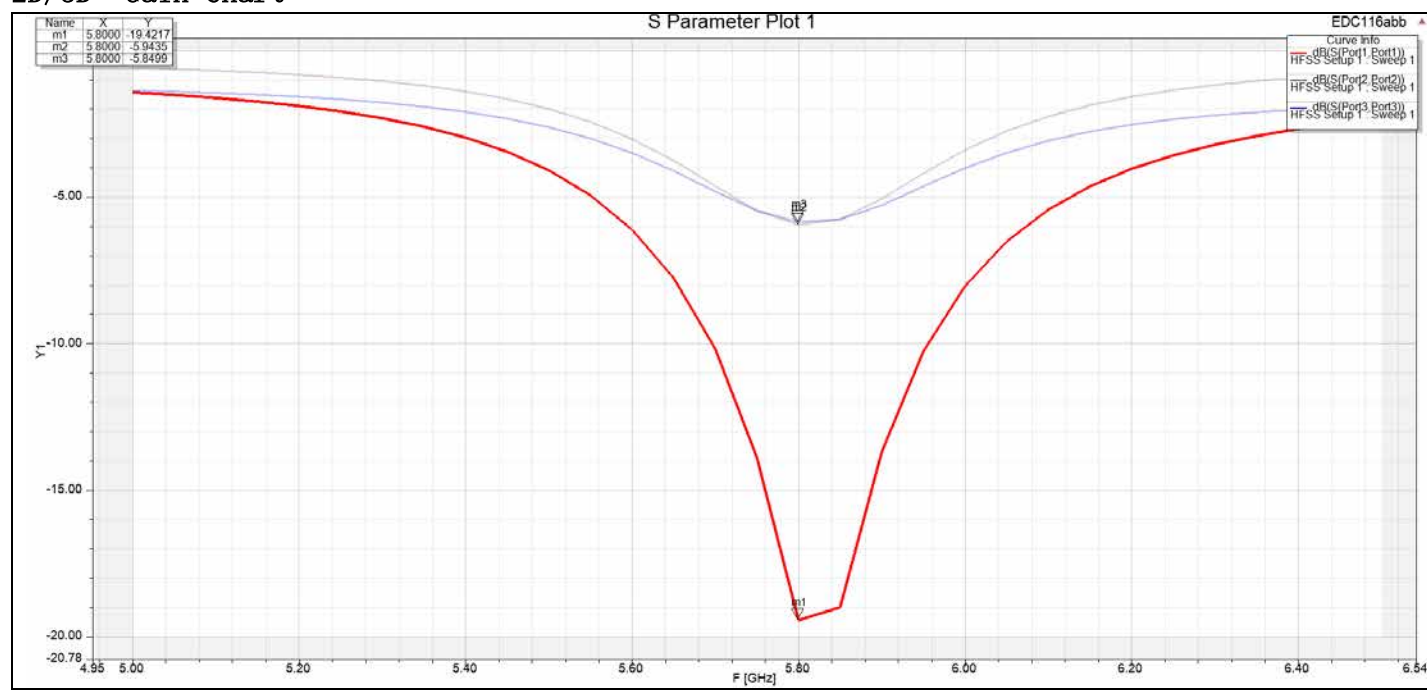
PCB inner grounding layer:

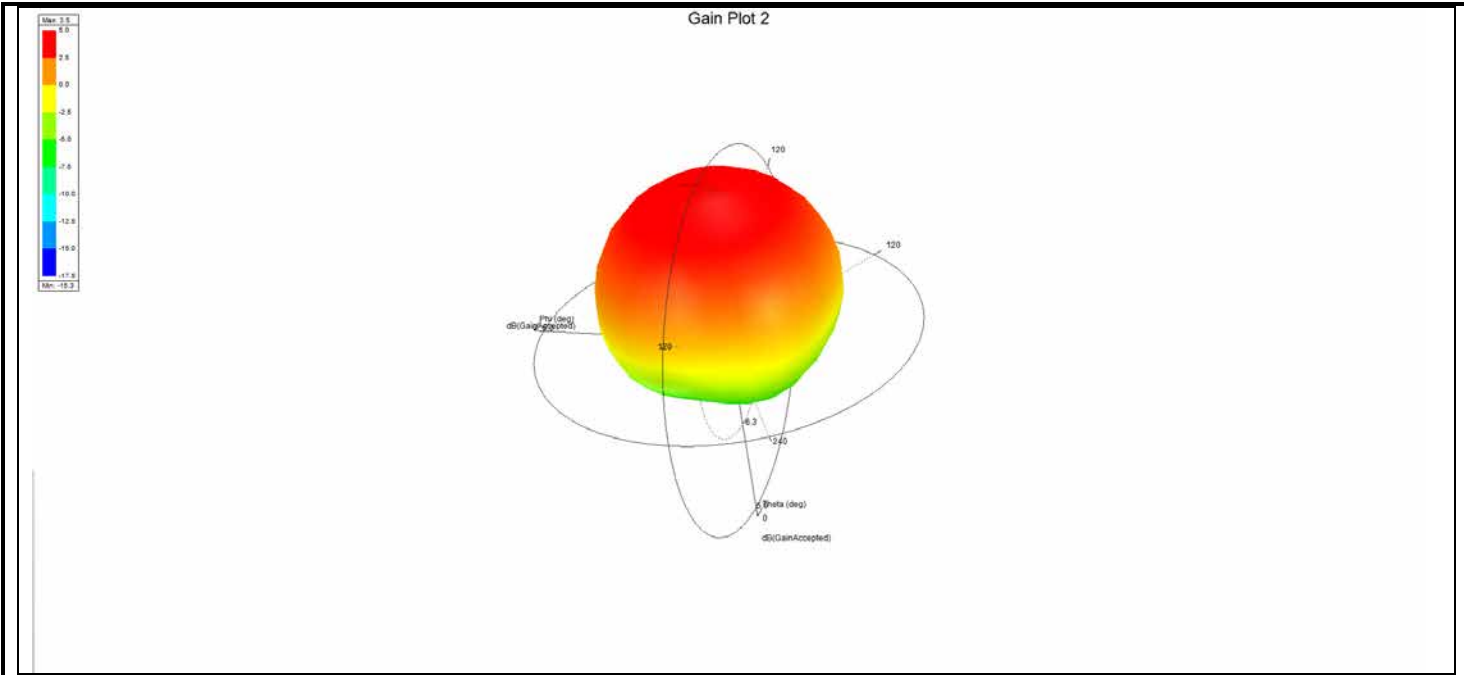
- size : $20*22\text{mm}$
- Copper Foil Thickness: 0.0175mm

Electrical characteristics

EDC116 Antenna	Parameter range
Working Frequency	5730MHz-5870MHz
Modulation mode & Band Width	CW >140MHz
Impedance	50 Ω
Gain(dBi)	Max 3.5dBi
VSWR	>2
Operation Temperature	-20~85℃

2D/3D Gain Chart





2D/3D Simulation Data Sheet

S11:5.8GHz @-19dBi

Gain: max3.5dBi

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.



易探科技

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