

深圳市易探科技有限公司

Shenzhen EasyDetek Technology Co., Ltd

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Report Version: A

EDC116 Antenna specification sheet

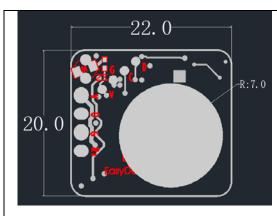
Characteristic

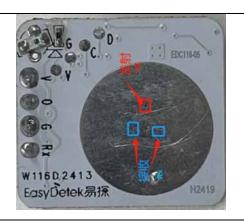
- 1. Onboard microstrip patch antenna, integrated transceiver antenna;
- 2, Antenna metal patch: R=7mm;
- 3, Antenna GND:20*22mm;
- 4. Low energy loss, high antenna efficiency, and good consistency;
- 5. Low and high temperature environments have minimal impact and high stability;

Application

Mainly used for antenna applications in the 5.8GHz frequency band

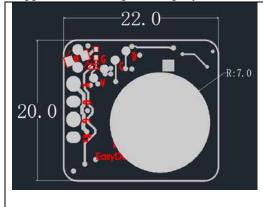
Structure





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*22mm;
- 4. Thickness of copper foil in PCB grounding layer:0.0175mm;



PCBantenna:

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

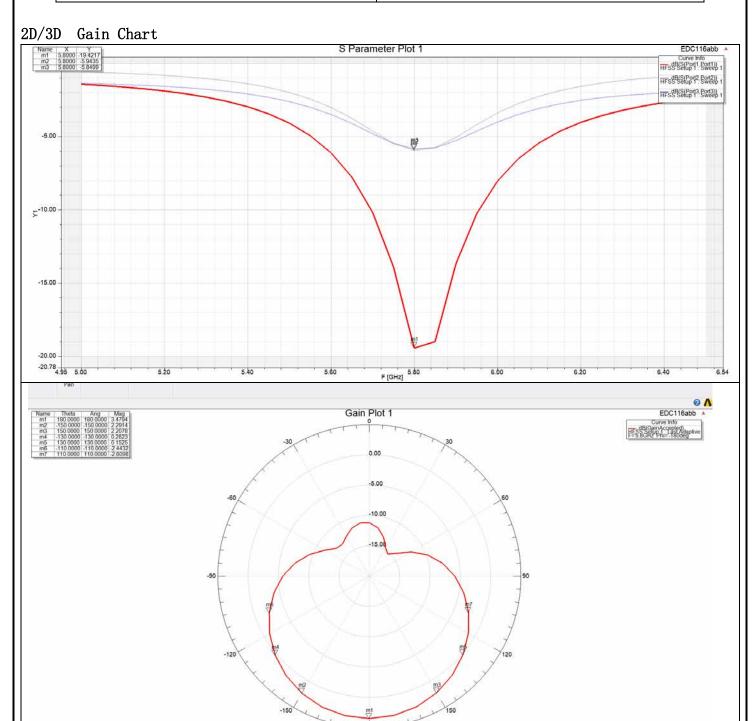
PCB inner grounding layer:

- --size : 20*22mm
- ——Copper Foil Thickness: 0.0175mm

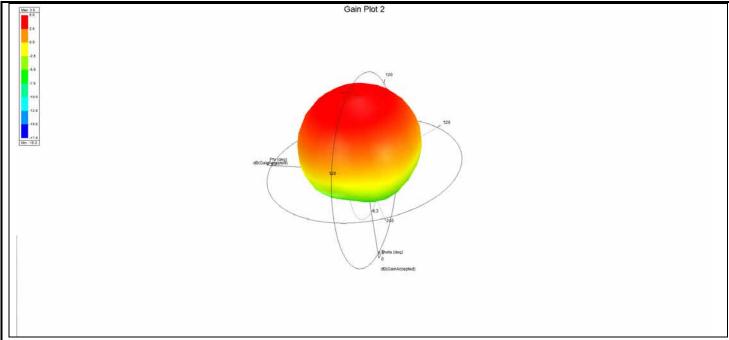


Electrical characteristics

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 °C







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.





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