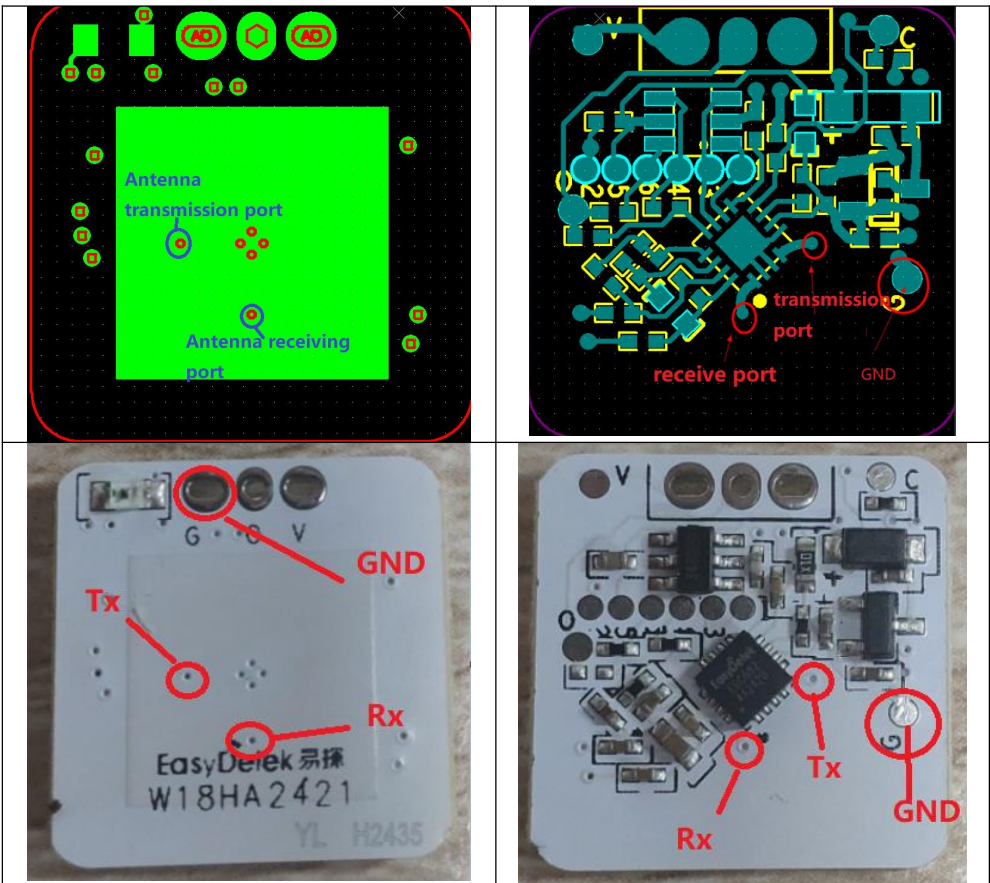


EDC18H - Antenna and Power Supply Connection Instructions

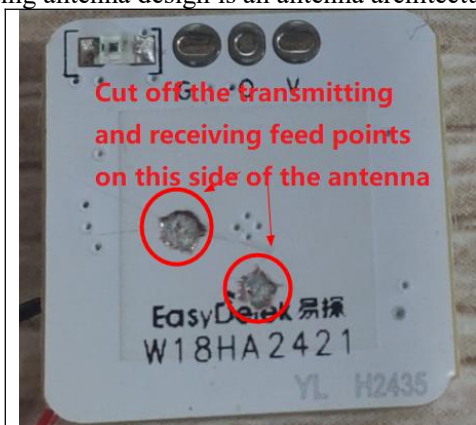
1、Antenna structure



2、Wiring instructions

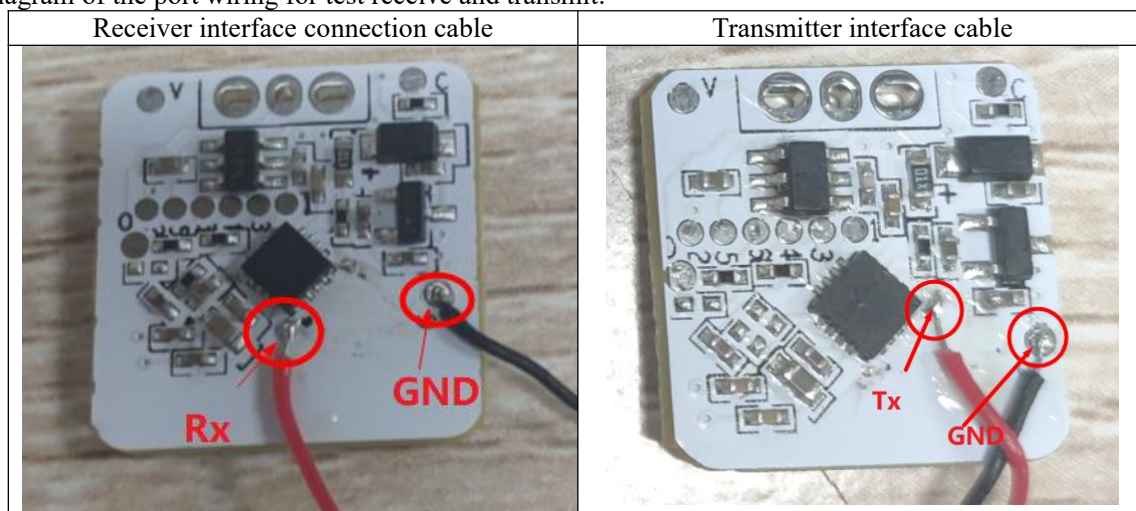
Power Supply Interface Description	RF Interface Description:								
<p>Dimensions : mm</p> <p>Pin Description</p> <table><thead><tr><th>Pin</th><th>Description</th></tr></thead><tbody><tr><td>G (GND)</td><td>Ground</td></tr><tr><td>O (Output)</td><td>Output IO/PWM</td></tr><tr><td>V (VIN)</td><td>Power supply 5-8V</td></tr></tbody></table> <p>When supplying power: only need to use the DC-DC source to input DC 5V/10mA voltage between the V pin and GND of the radar module; (As long as it is powered on, the RF will always work and continue to transmit frequency)</p>	Pin	Description	G (GND)	Ground	O (Output)	Output IO/PWM	V (VIN)	Power supply 5-8V	<p>SMA coaxial wire can be used, according to the above diagram, GND and the transmitter and receiver are connected respectively</p>
Pin	Description								
G (GND)	Ground								
O (Output)	Output IO/PWM								
V (VIN)	Power supply 5-8V								

In addition: when testing the frequency and radiated power, the two antenna feeders of transmitting and receiving can be cut off (because the existing antenna design is an antenna architecture with integrated transceiver and receiver)



Use a blade to cut off the receiving and transmitting feed points of this side of the antenna

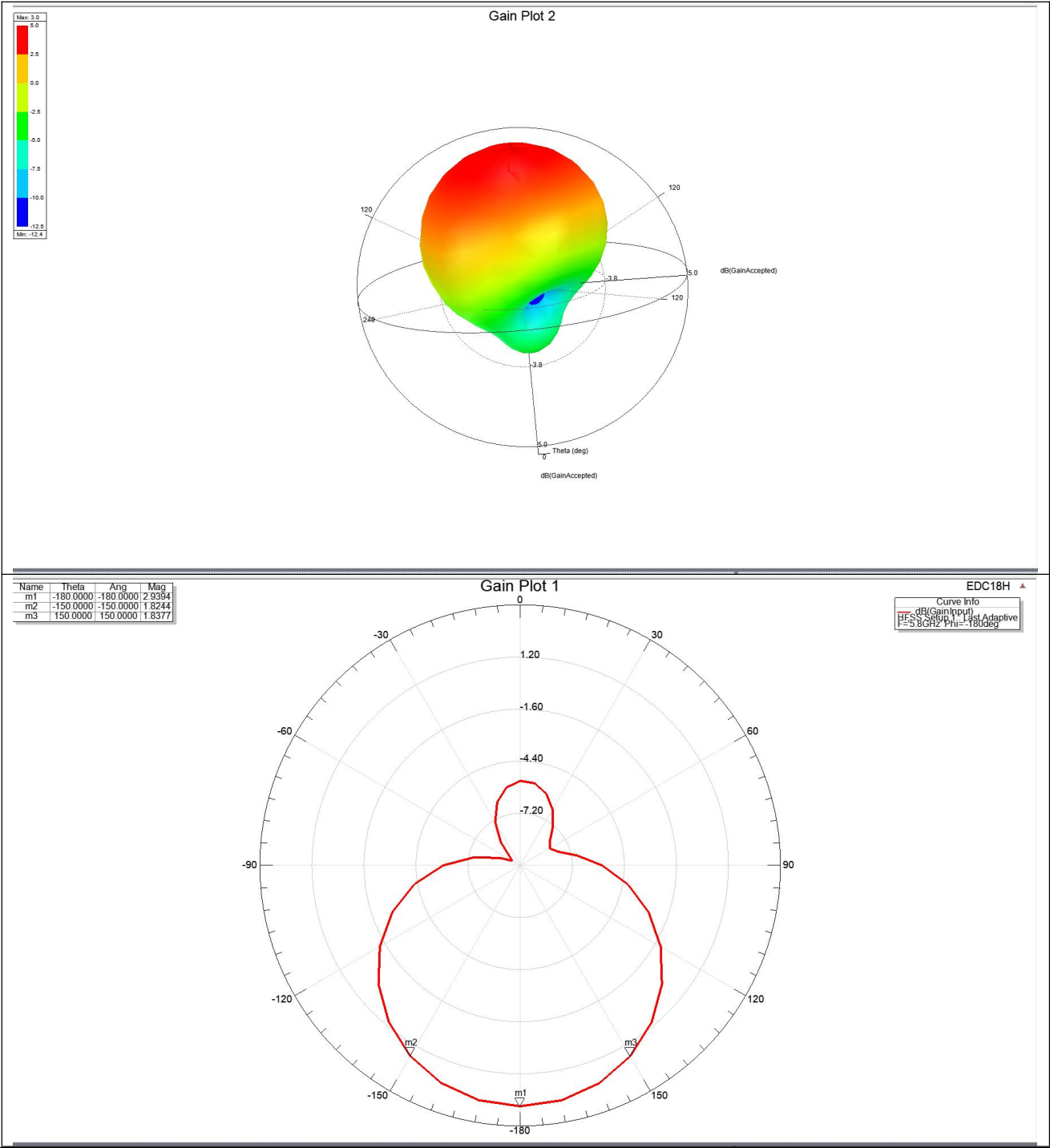
Schematic diagram of the port wiring for test receive and transmit:

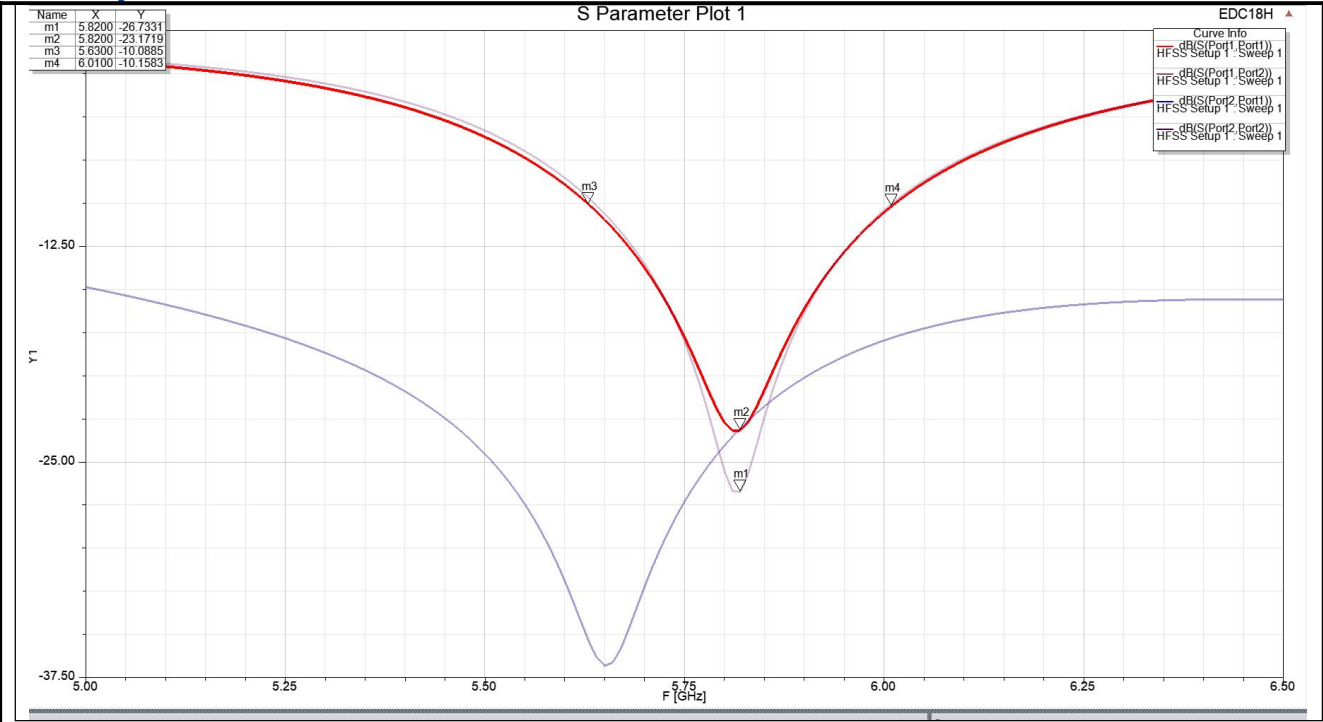


3、Electrical characteristics

EDC18H-Antenna	Parameter range
Working Frequency	5725MHz-5875MHz
RF mode of operation	FSK
Impedance	50 Ω
Gain(dBi)	Max 3.0dBi
VSWR	>2
Operation Temperature	-20~85°C

4、2D/3D Simulation diagram





2D/3D Simulation Data Sheet:
S11:5.82GHz @-26.7dBi
Gain: max3.0dBi



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