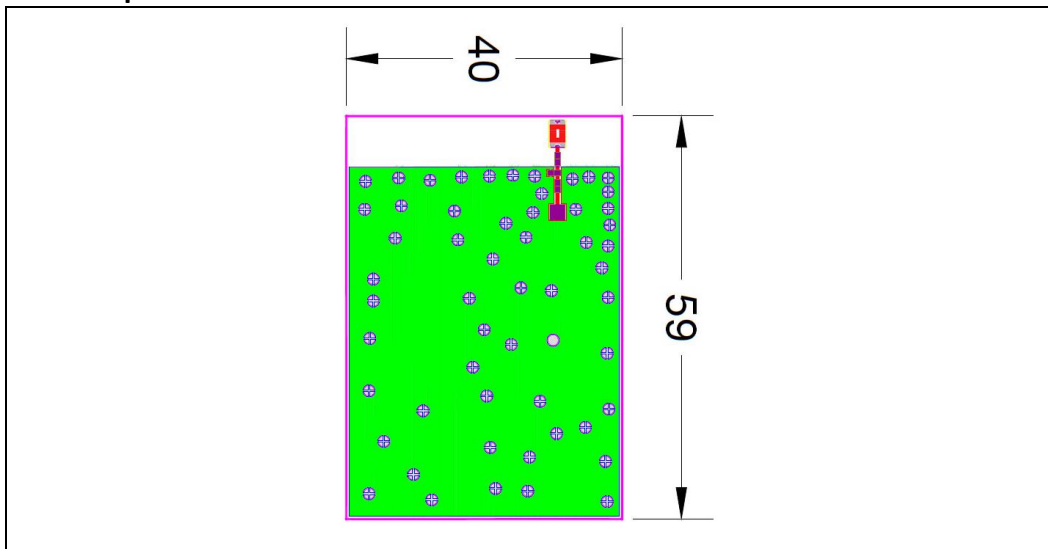


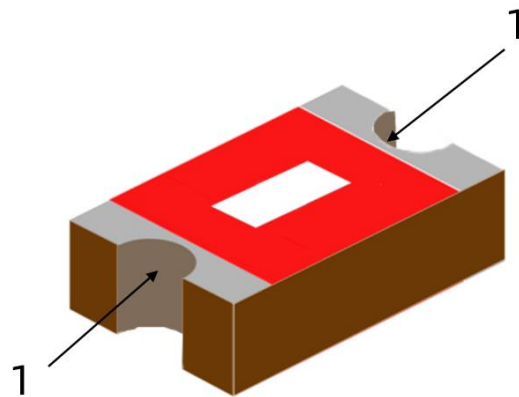
Antenna Report

	Specification
Working Frequency	2400-2500MHz
Impedance	50 Ω
Max Gain(dBi)	3.74
VSWR	<2
Operation Temperature	-40°C~+95°C
Power Capacity	3W
Manufacture	Zhejiang Yulu Electronic Technology Co., Ltd. Room 805 8/F, Xianfeng Science and Technology Bldg., No.298 Weiye Road, Binjiang District, Hangzhou, Zhejiang, China

Antenna Section Design

Antenna placement and clearance considerations.



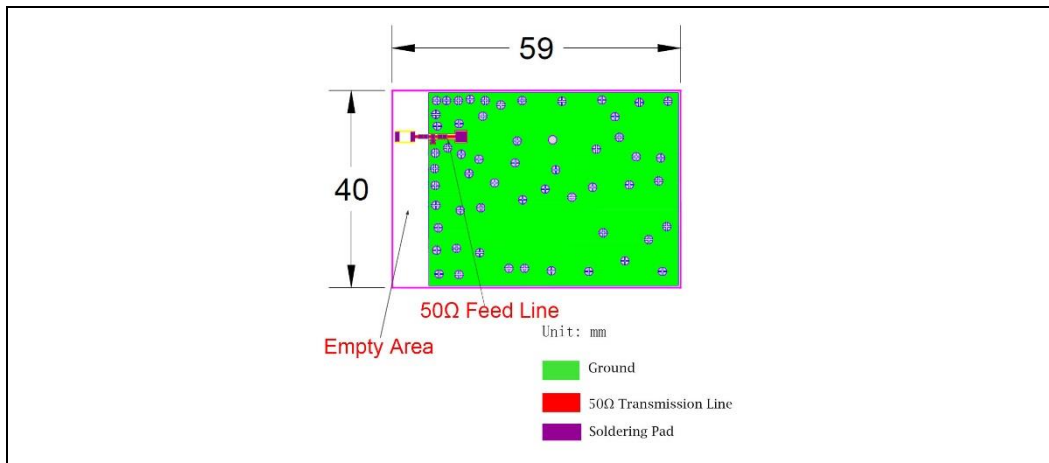


3.5 X 1.7 X 1.2 mm

The feed pad and fixed pad at both ends of the antenna are not distinguished.

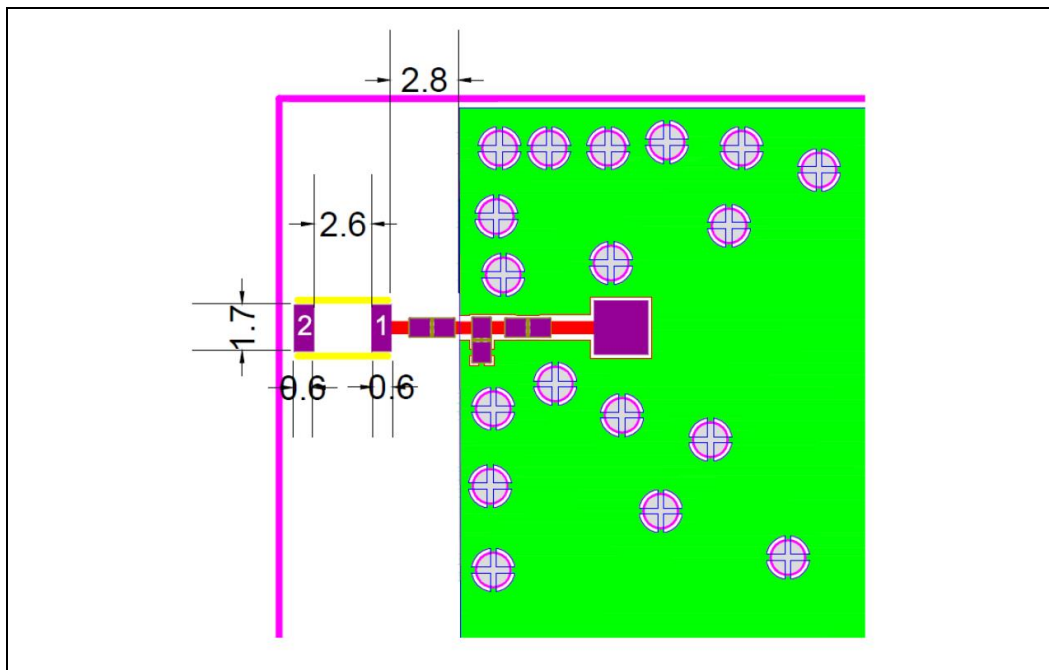
Dimensions

Three-view drawings	Symbol	Dimensions(mm)
	L	3.5 ± 0.2
	w	1.7 ± 0.1
	T	1.2 ± 0.1
	a	0.4 ± 0.1



Antenna pads and dimensional packaging on the circuit board.

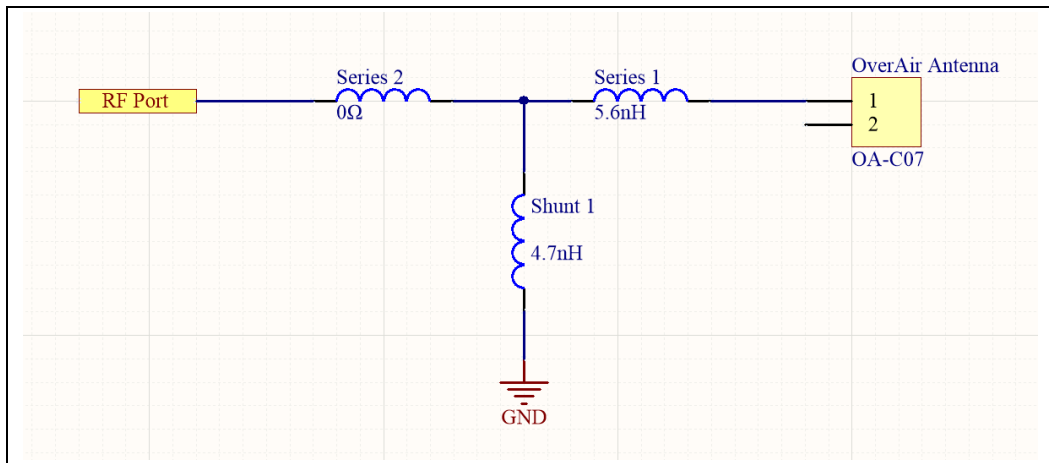
The figure below shows the recommended antenna pads. This antenna has two pads, numbered 1 and 2 respectively.



Schematic diagram of the antenna on the circuit board and matching network.

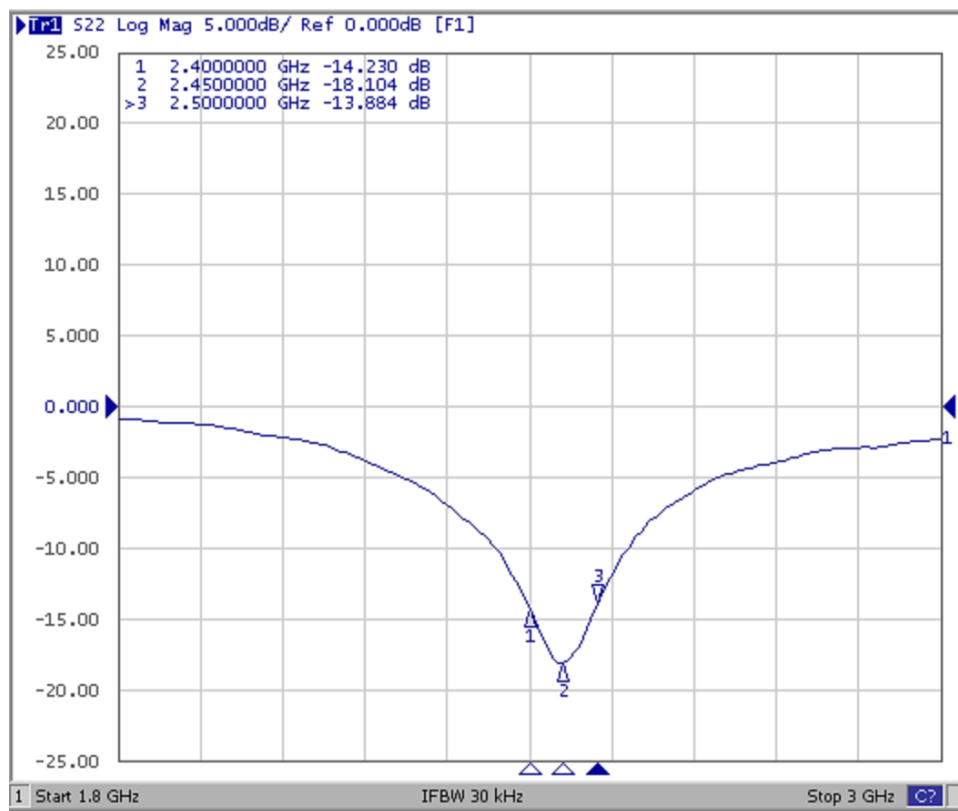
Any type of antenna requires impedance matching to ensure its performance meets impedance specifications. The OA-C07 patch antenna similarly necessitates the addition of a matching network to guarantee compliance with standards.

The recommended schematic for the antenna section on the circuit board is shown below, where the RF Port represents the pin of the RF module or the output terminal for RF signals.

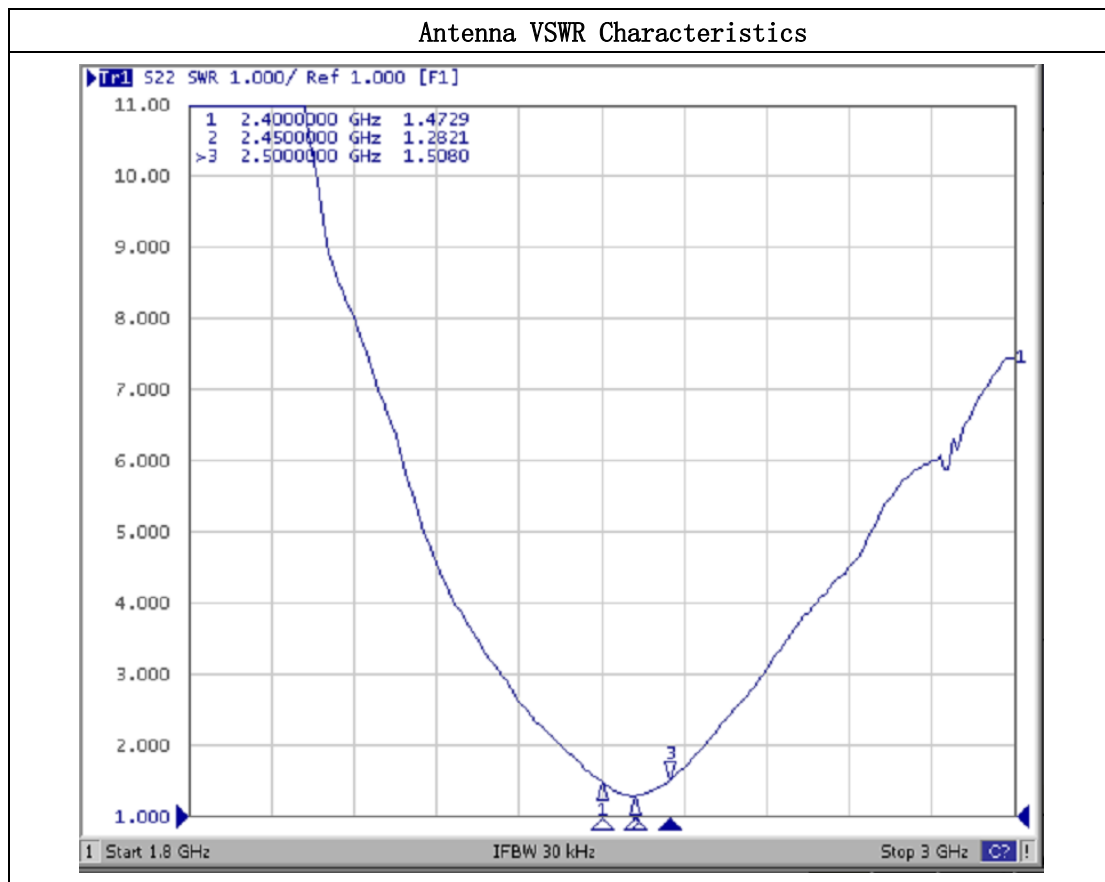


The performance parameters after antenna matching and debugging are shown in the figure below:

Antenna S11 Specifications



Antenna VSWR Characteristics



Gain and Efficiency	Bandwidth 2.4G-2.5GHz
Peak Gain	3.74dBi
Average Gain across the band	3.66dBi
Gain Range across the band	3.42dBi~3.74dBi
Peak Efficiency	58.9%
Average Efficiency across the band	55.9%

