

132-A5ESP32-00

PCB Antenna Spec

客 户 Customer	客户承认 Approve（请盖印章）	日 期 Date

拟制 Design	审核 Check	批准 Approve	版本 Version	日期 Date
			V1.0	2024.06.12

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Reversion History :

Version	Date	Modification
1.0	2024.06.12	First release

1. Application:

WLAN, 802.11b/g/n

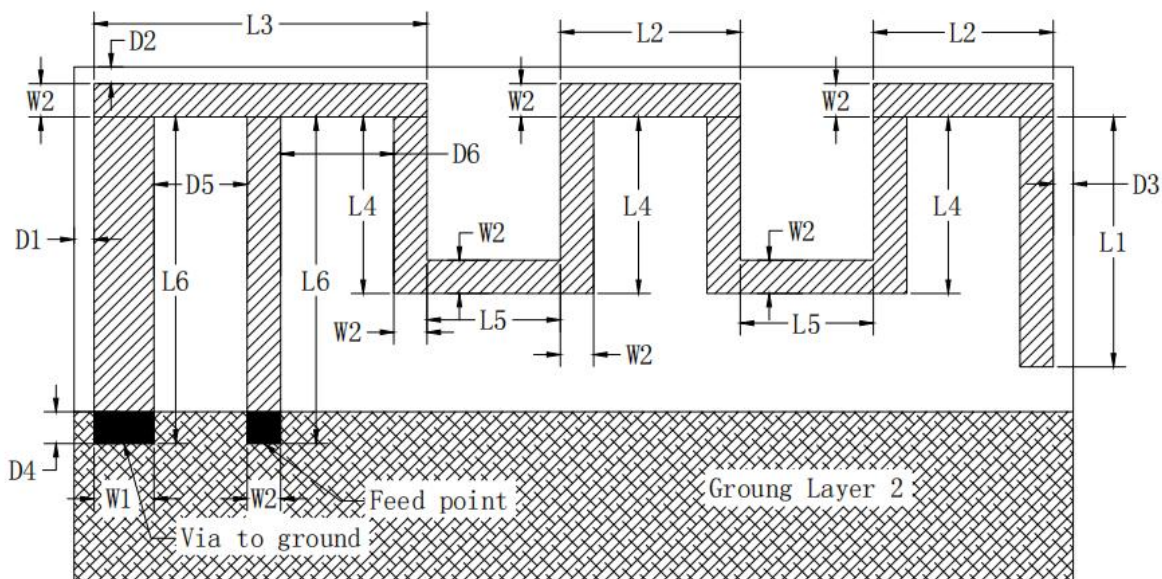
2. Features

PCB antenna

3. Electrical Specification

Frequency	2400-2500 ISM band
Peak Gain	2.4G: $\leq 1.0\text{dBi}$
Impedance	50 Ohm
Azimuth Beam width	Omni-directional
Operation Temperature °C	-20 ~70°C

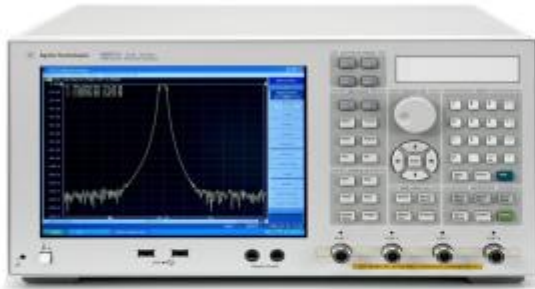
4. Dimension



Antenna Dimensions	
L1	3.75mm
L2	2.7mm
L3	4.94mm
L4	2.65mm
L5	2.0mm
L6	4.9mm
W1	0.9mm
W2	0.5mm
D1	0.3mm
D2	0.25mm
D3	0.3mm
D4	0.48mm
D5	1.4mm
D6	1.7mm

5. ANTENNA TEST REPORT

Test equipment



Agilent E5071C

- Frequency: 300 kHz至8.5GHz



R&S CMW500

- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT

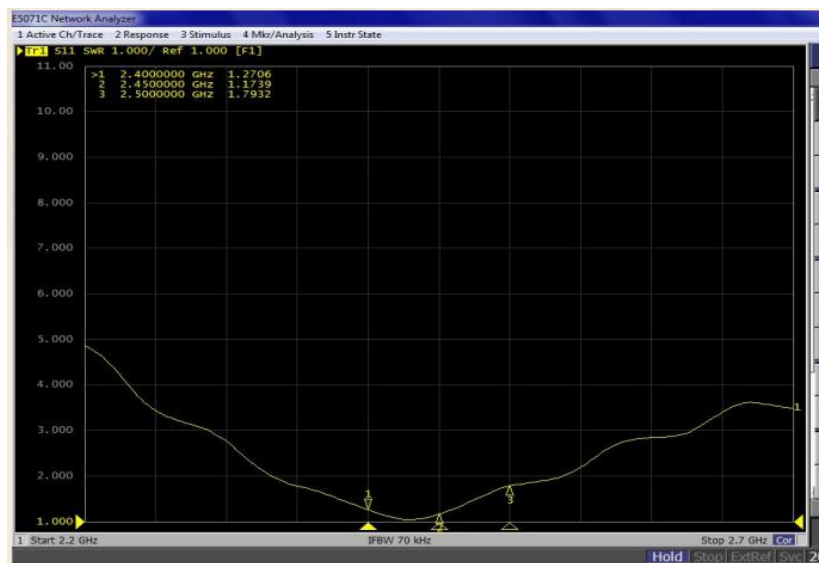
Test system



6. Physical image



7. Passive antenna data



8. Antenna Gain and Efficiency

Antenna Gain and Efficiency		
Freq(MHz)	Efficiency(%)	Gain(dBi)
2400	26.67	-0.82
2410	27.28	-0.8
2420	28.12	-0.79
2430	28.91	-0.77
2440	29.02	-0.86
2450	29.22	-0.8
2460	29.25	-0.74
2470	28.91	-0.78
2480	28.29	-0.89
2490	27.81	-0.96
2500	27.6	-0.99

9. Antenna Radiation Pattern

