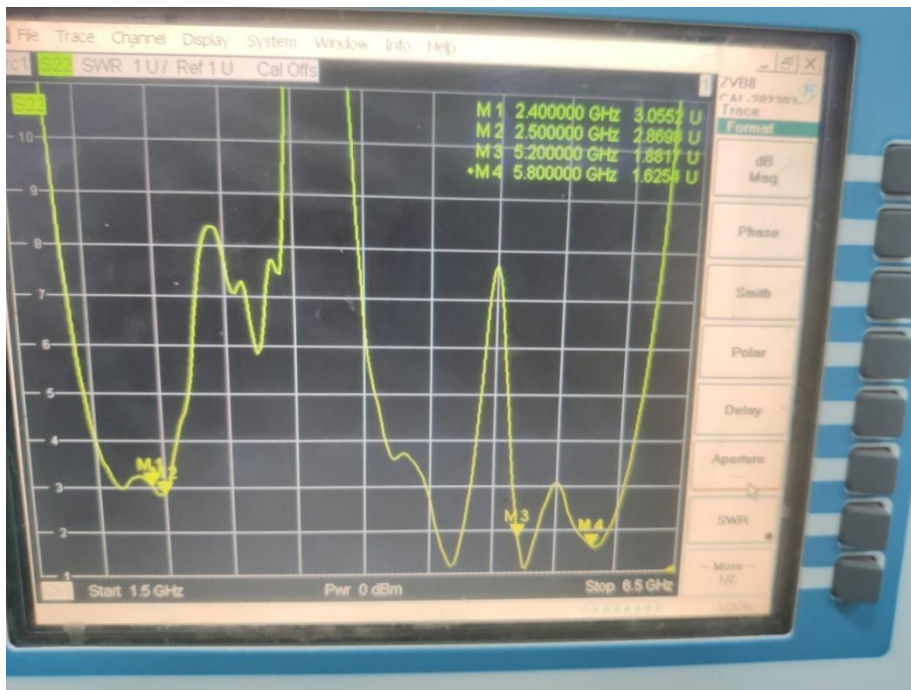


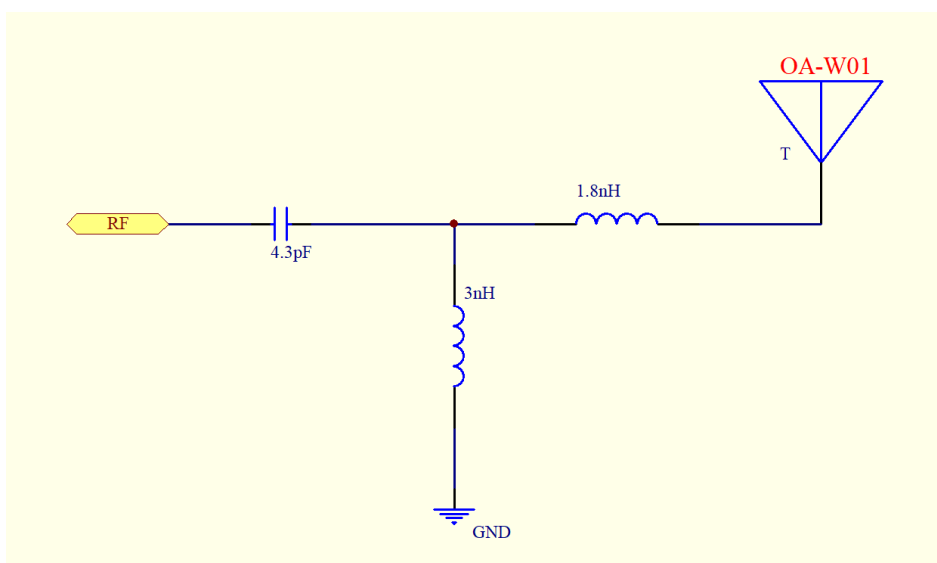
Guangzhou Hanwuji Electronics Co.,Ltd.

1: Built-in antenna test environment and matching network

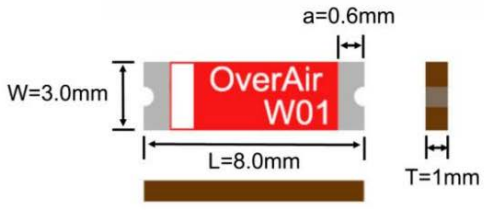
A: Debugging test environment as follows



B: The antenna matching network



尺寸

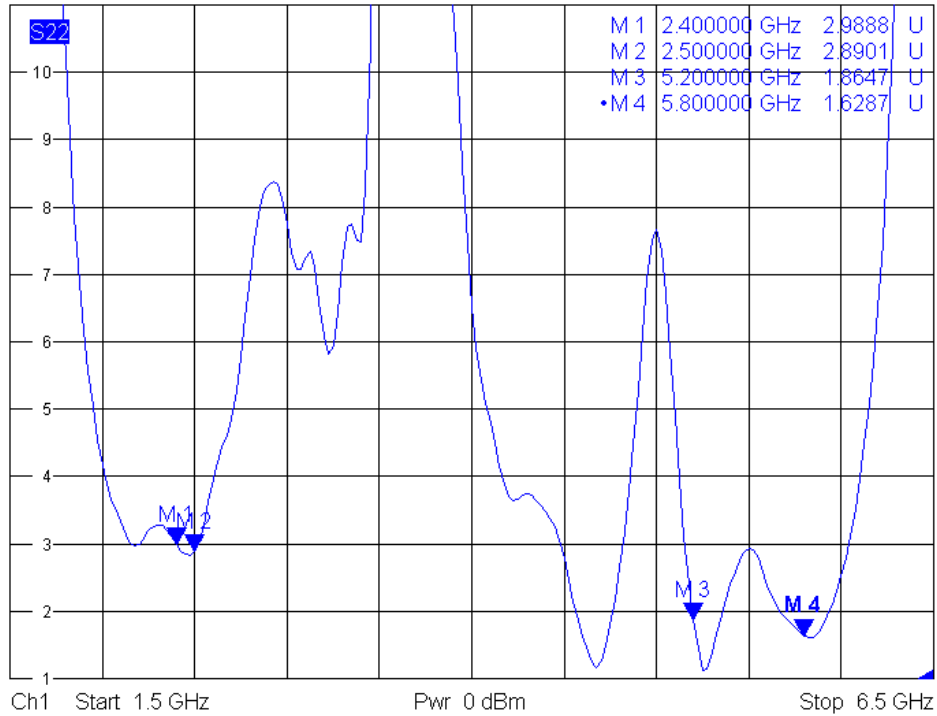
三视图	符号	尺寸(mm)
 <p>Technical drawing of an OverAir W01 component. The drawing shows a top view of a rectangular component with a red center and a grey border. The dimensions are: L=8.0mm (length), W=3.0mm (width), a=0.6mm (radius of the semi-circular ends), and T=1mm (thickness). The text 'OverAir W01' is printed on the red area. A side view shows the component's profile with a thickness of T=1mm.</p>	L	8.0±0.1
	w	3.0±0.1
	T	1.0±0.1
	a	0.6±0.1

2: Measurements

VSWR

Trc1 S22 SWR 1 U / Ref 1 U Cal Offs

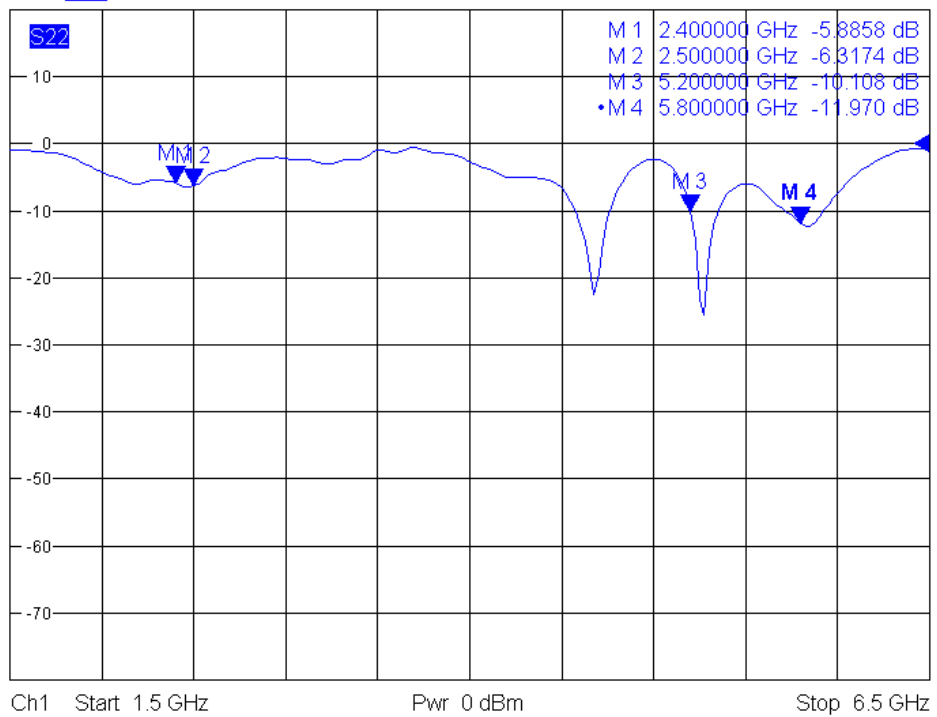
1



Return loss

Trc1 S22 dB Mag 10 dB / Ref 0 dB Cal Offs

1



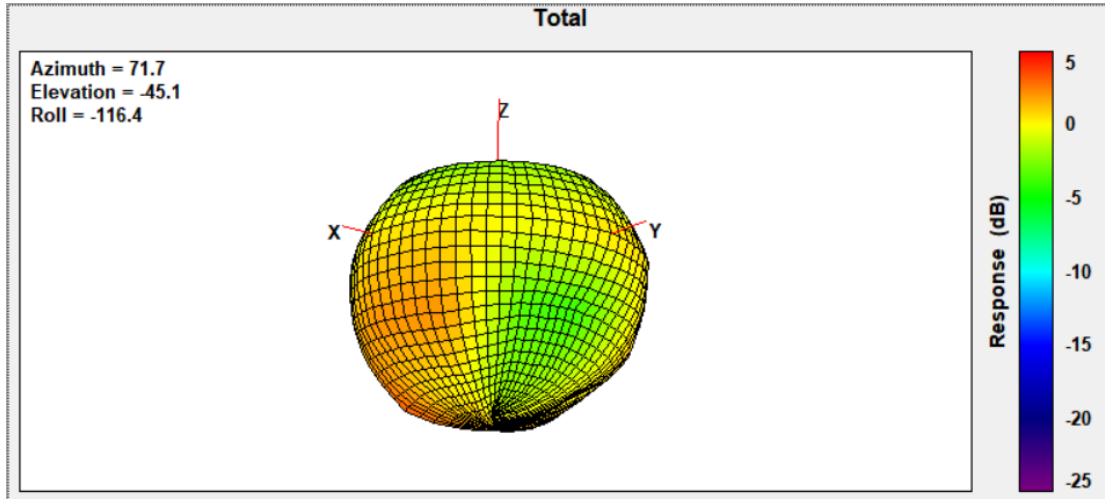
Efficiency & Gain:

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	37.79	0.21
2410	39.09	0.23
2420	43.39	0.60
2430	46.31	0.62
2440	44.19	1.33
2450	52.26	1.82
2460	48.67	1.23
2470	44.19	0.26
2480	39.55	-0.14
2490	36.60	-0.46
2500	35.52	-0.49

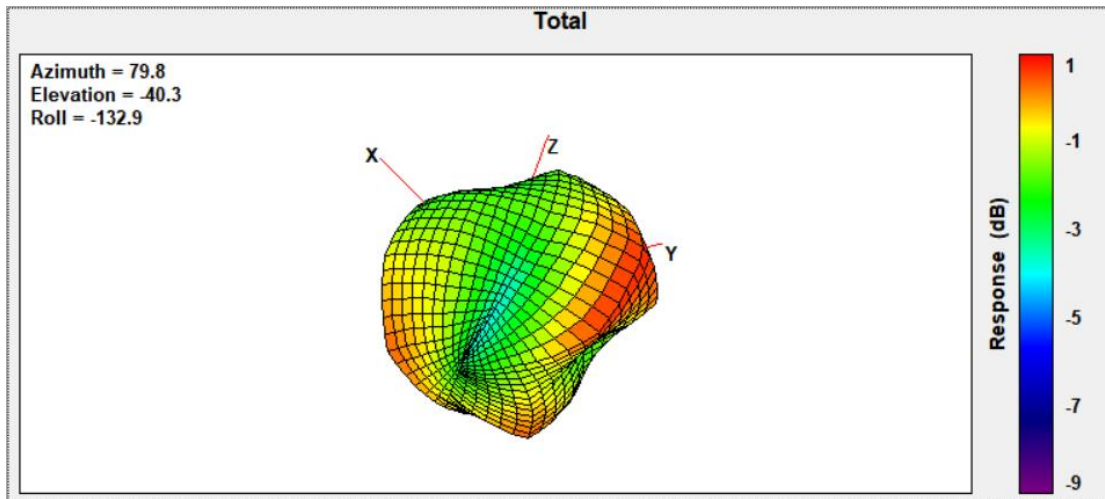
Frequency (MHz)	Efficiency (%)	Gain (dBi)
5200	34.63	-0.69
5300	50.26	0.67
5400	48.98	0.75
5500	48.98	0.91
5600	39.70	0.60
5700	36.40	0.59
5800	32.64	0.16

3D Radiation characteristics

@2.44Ghz



@5.5Ghz



3: conclusions

After debugging of the impedance matching device, the indicators of the SMD antenna of this product meet the design requirements.