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Guangzhou Hanwuji Electronic Technology Co.

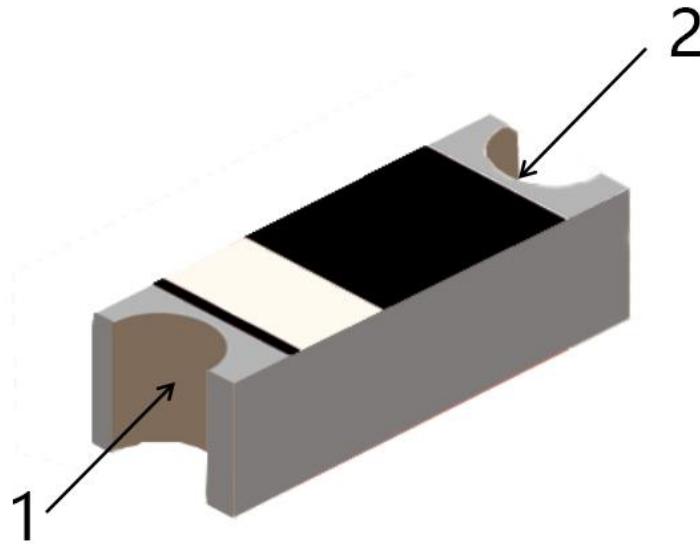
Antenna Specification

OverAir[®] SMD Antenna Series
Compliant with RoHS

PN: OA-C09

2.4 GHz ISM frequency band antenna

Structure



Pin 1: Antenna feed pad, connected to RF signals

Pin 2: Antenna fixed pad, not connected to any signals

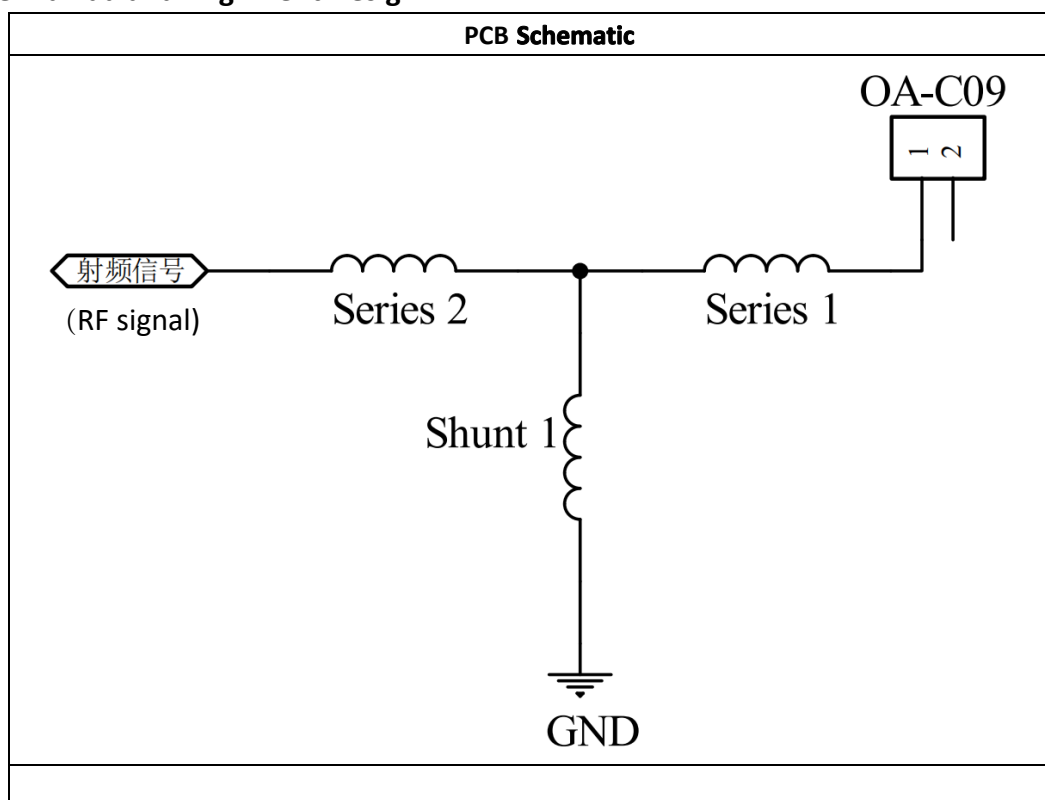
Sizes

Three Views			
	L		5.5 ± 0.2
	w		1.2 ± 0.1
	T		1.2 ± 0.1
	a		0.4 ± 0.1

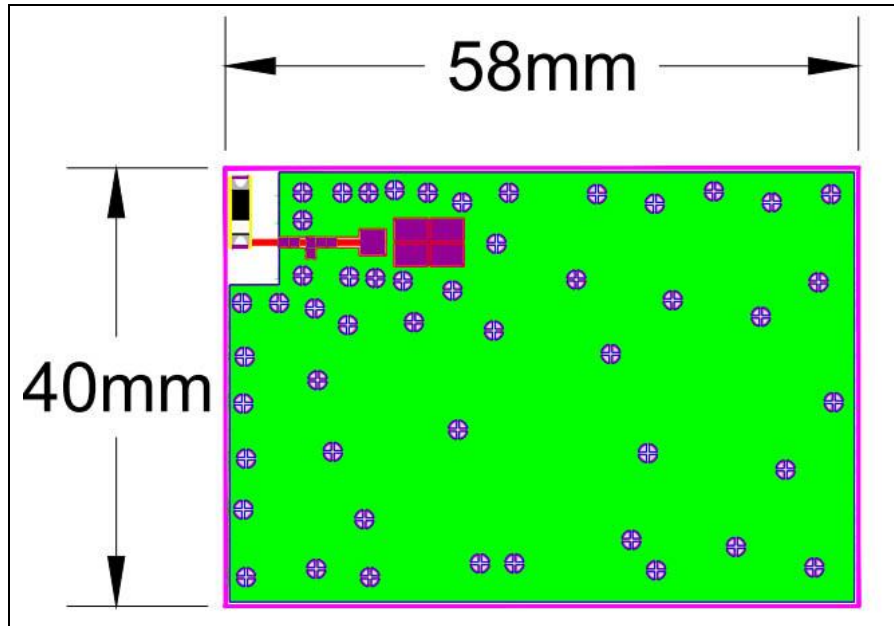
Electrical Characteristics

OA-C09	Specification
工作频率范围 Working Frequency	2450±50MHz
带宽 Band Width	>100MHz
阻抗 Impedance	50 Ω
增益 Gain(dBi)	4.0
驻波比 VSWR	<2
工作温度 Operation Temperature	-40℃~+95℃
可承受功率 Power Capacity	3W

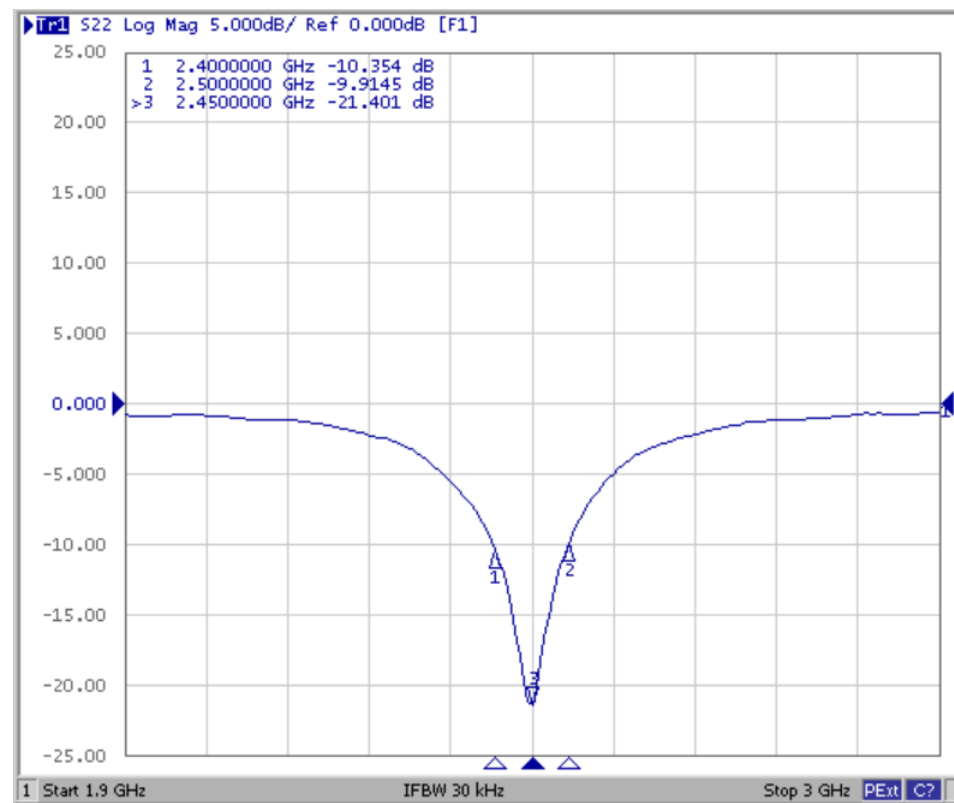
Antenna Pad and Alignment Design

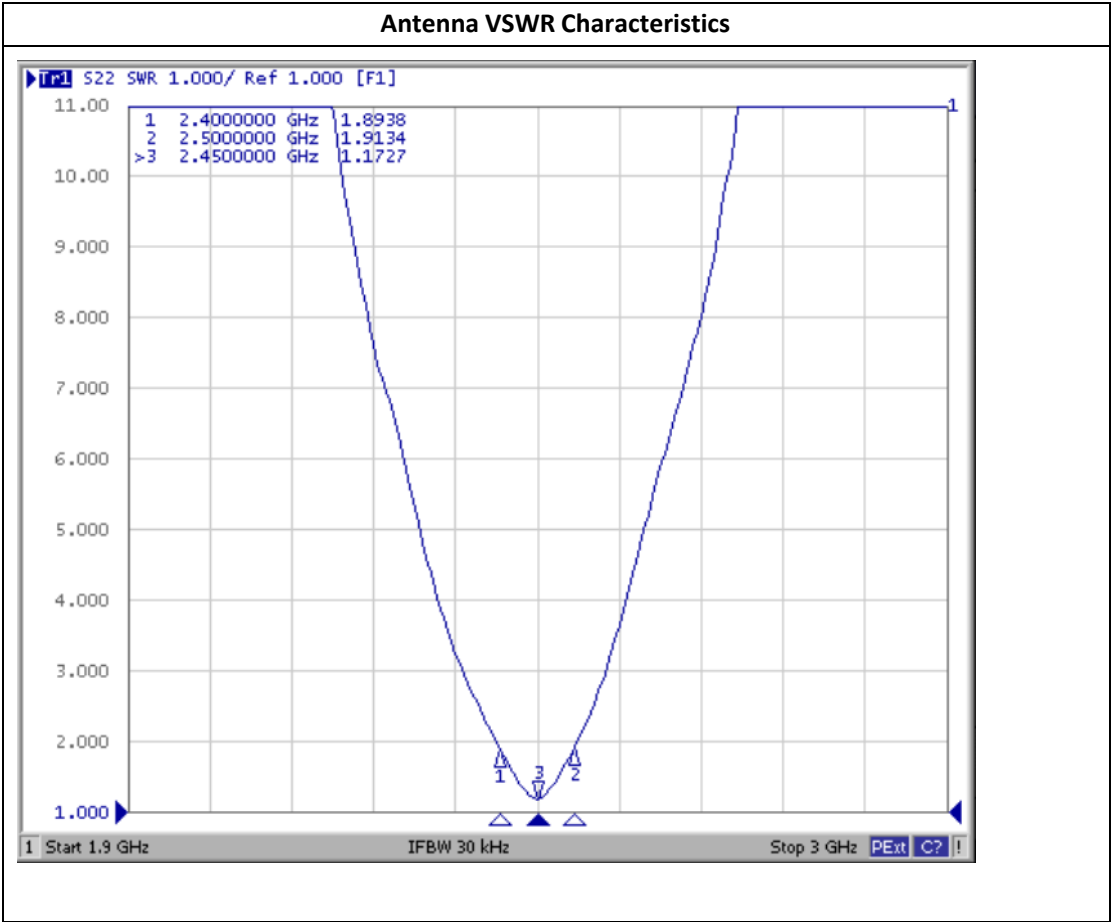


Antenna Test on Test Board (Board Thickness 1.0mm)



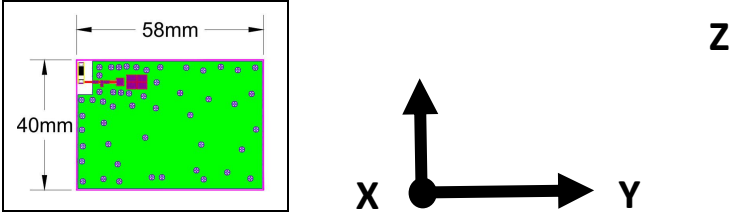
Antenna S11 Characteristics





Efficiency and radiation diagrams

Antenna specification characterization test data is based on test PCB board dimensions and the test orientation shown in the figure below. The following data was tested in the ETS 3D microwave darkroom.



Gain and efficiency	2.4G-2.5GHz
带内平均增益 Average Gain across the band	4.0dBi
带内增益范围 Gain Range across the band	3.59dBi~4.0 dBi
峰值效率 Peak Efficiency	62.5%
带内平均效率 Average Efficiency across the band	57.5%
效率范围 across the band	51.3%~62.5%

