

承 認 書

SPECIFICATION FOR APPROVAL

客戶名稱
CUSTOMER : _____

客戶料號
CUSTOMER'S P/N : _____

料號
PART NUMBER : WAN3216F245H0X

規格
DESCRIPTION : Chip Antenna 3216 L Ant 2.45G Type 0X

版本
VERSION : V2.2

日期
ISSUE DATE : 2018/07/01

客 戶 承 認 CUSTOMER APPROVED

工 程 部 R&D CENTER		
承 認 APPROVAL	確 認 CHECKED	製 作 DRAWN
Ray	Nate	Kelvin



萬誠科技股份有限公司

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電話: (02) 2898-2220

傳真: (02) 2898-5055

OneWave Electronic Co., Ltd.

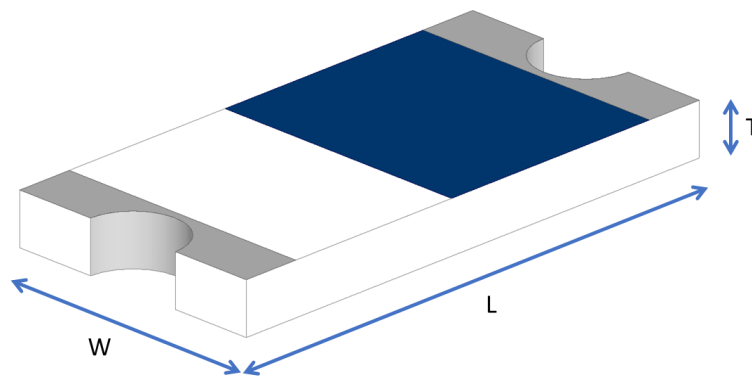
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Taipei City 112, Taiwan

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FAX: +886 2 2898-5055

3216 Chip antenna

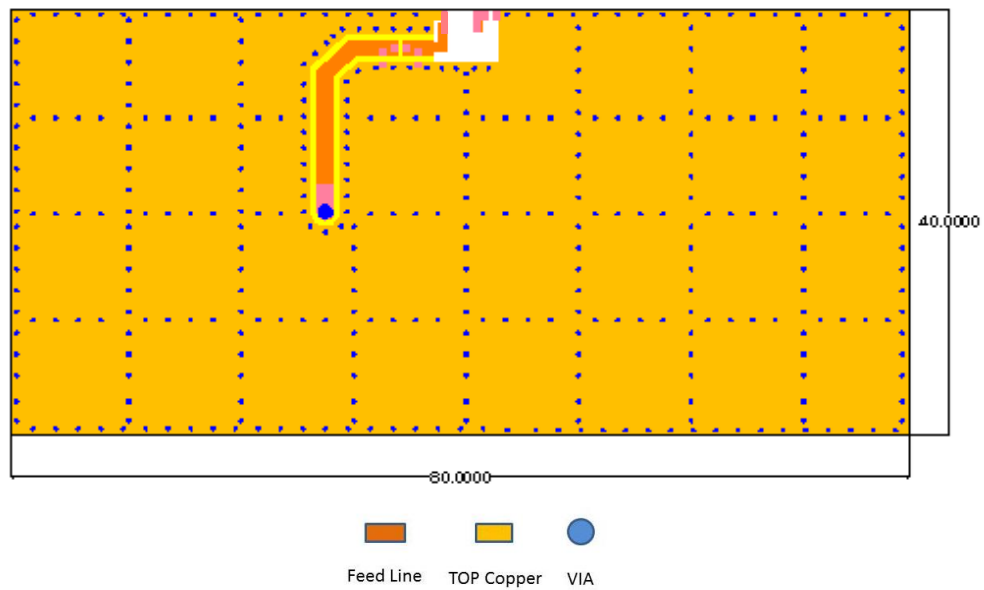
For Bluetooth / WLAN Applications



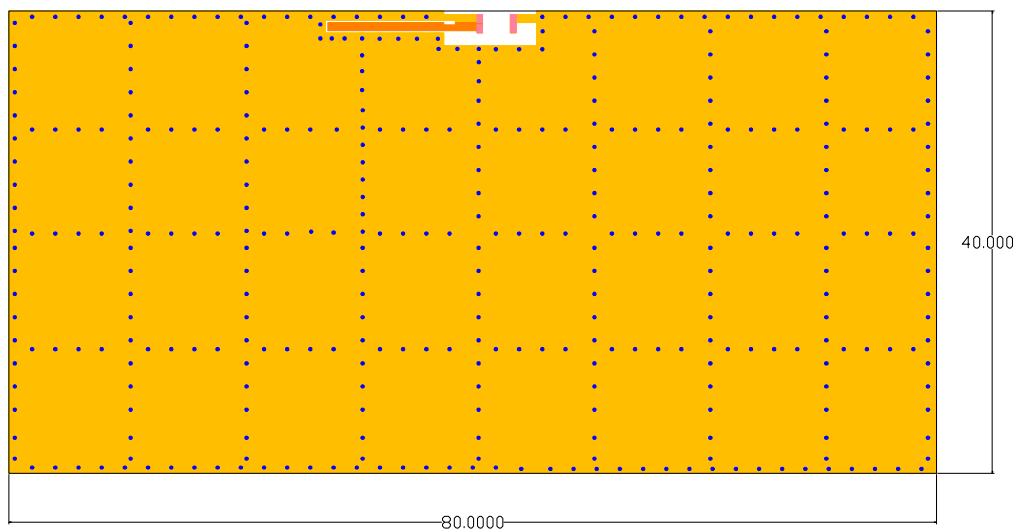
P/N: WAN3216F245H0X

	Dimension (mm)
L	3.23 ± 0.20
W	1.66 ± 0.20
T	0.45 ± 0.20

2. Recommended PCB Pattern Evaluation Board Dimension



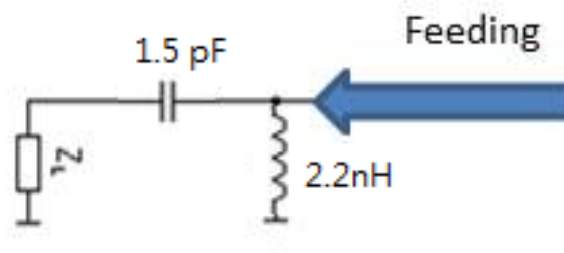
2nd Evaluation Board Dimension



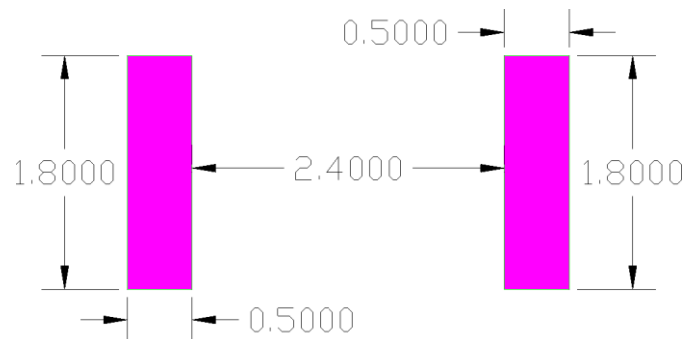
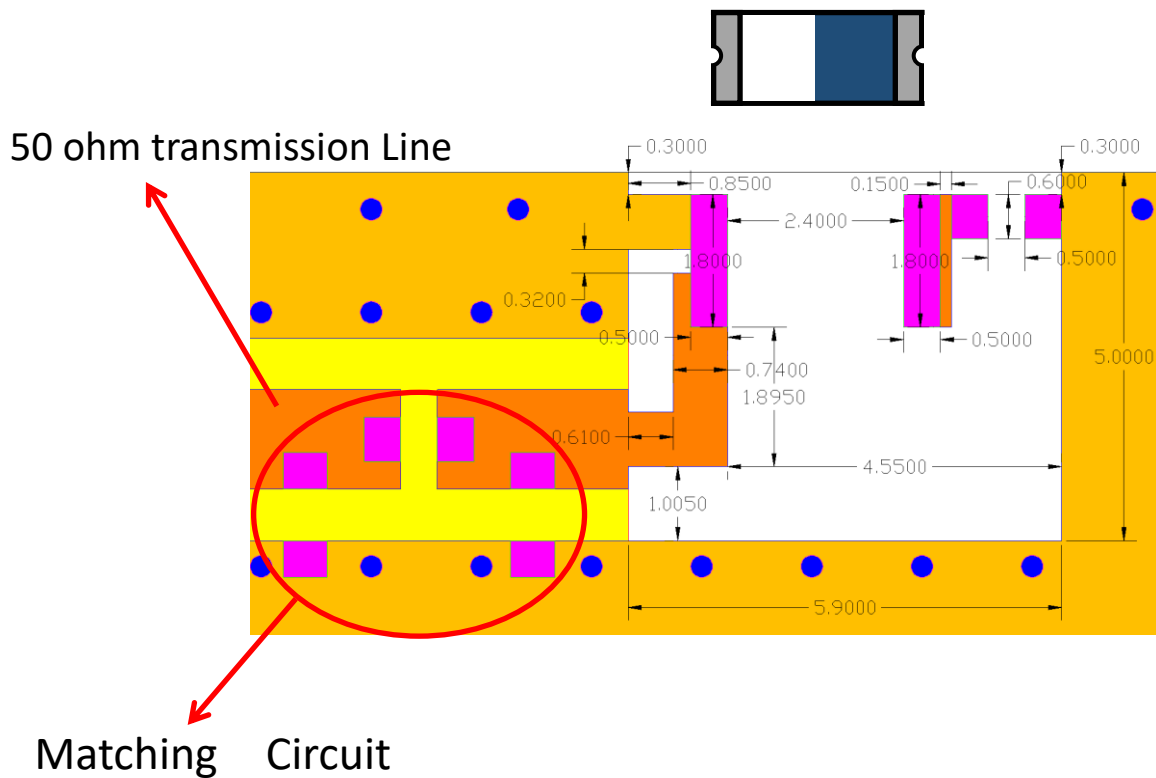
Suggested Matching Circuit

重要資訊：

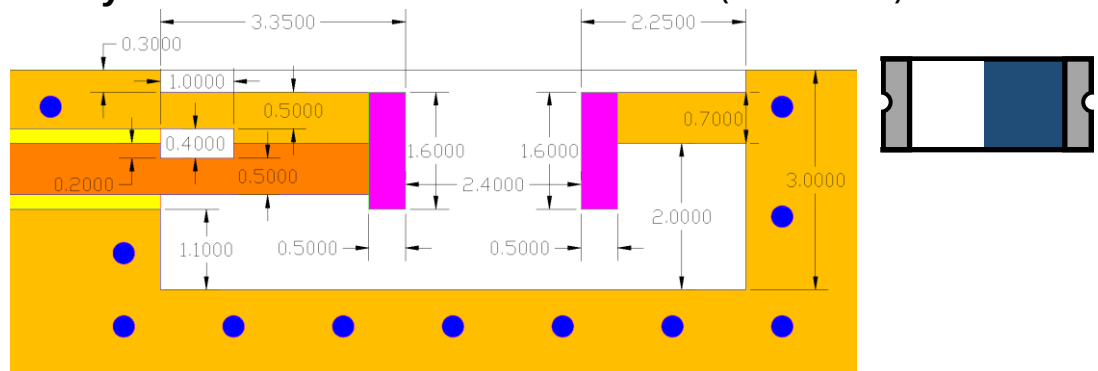
匹配元件建議使用精準度 $\pm 1\%$ 以下的電感、電容、電阻



Layout Dimensions in Clearance area(Size=5.9*5.0mm)

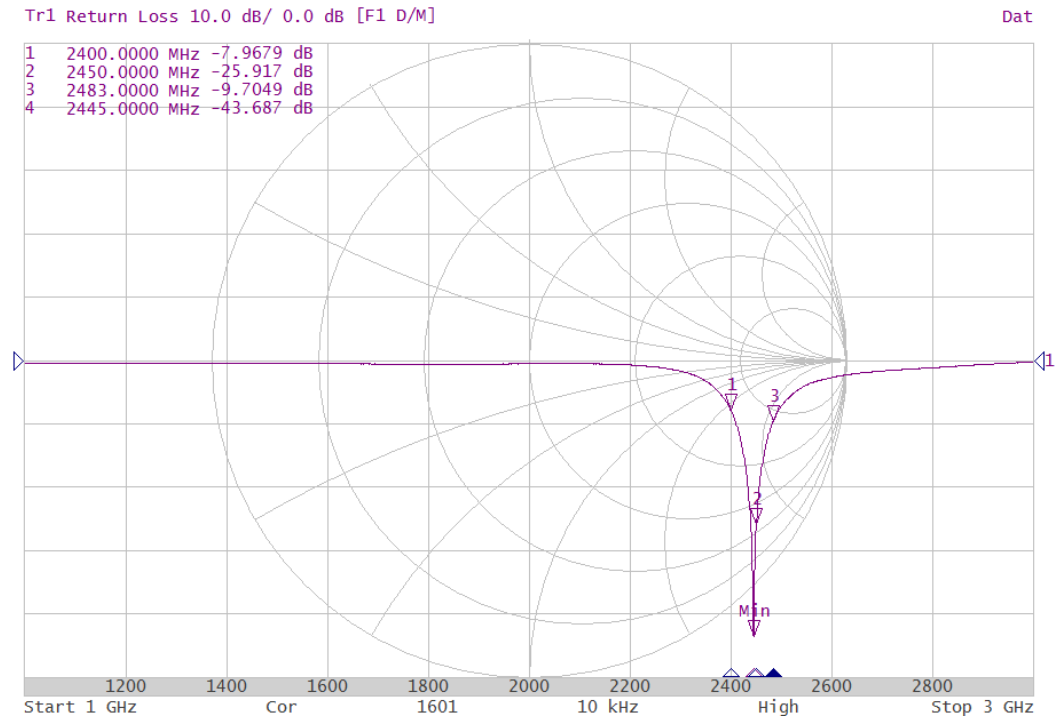


◆ 2nd Layout Dimensions in Clearance area(Size=8.0*3.0mm)

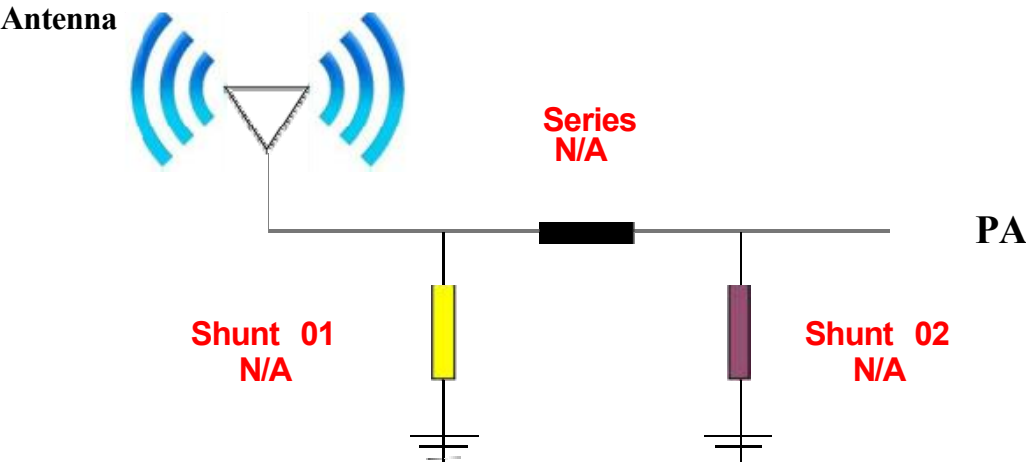


3. Measurement Results

Return Loss

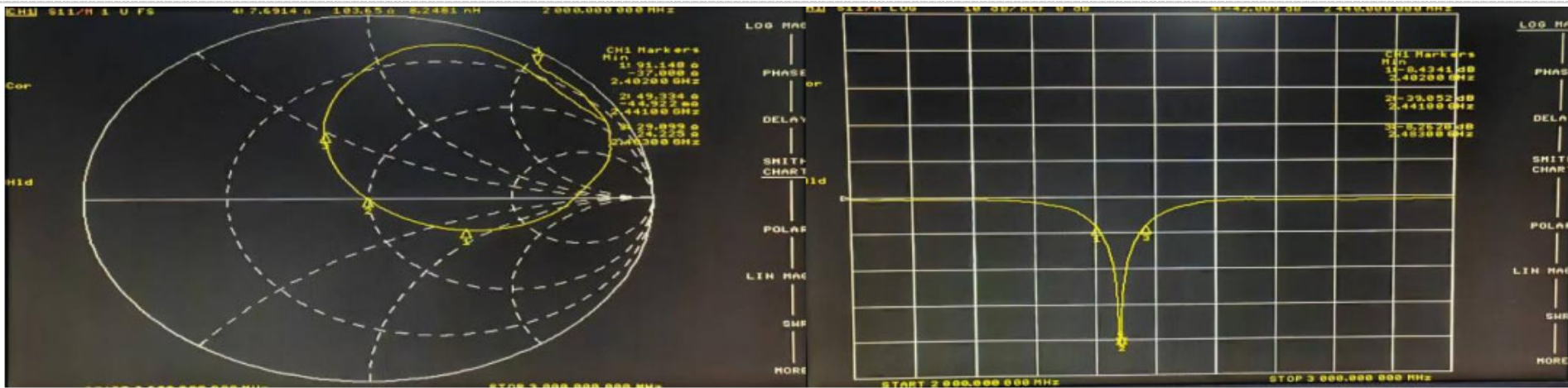


C9 Main Board
Antenna Matching Network



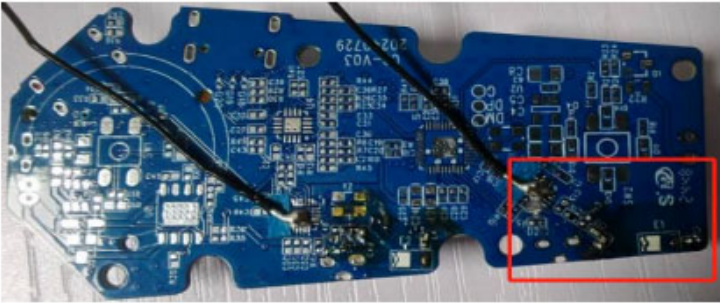
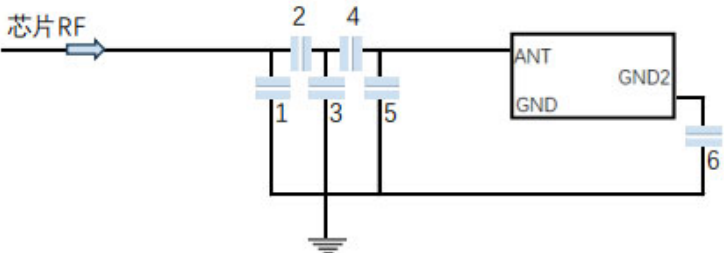
Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

S11 SWR /Smith/ Log Mag



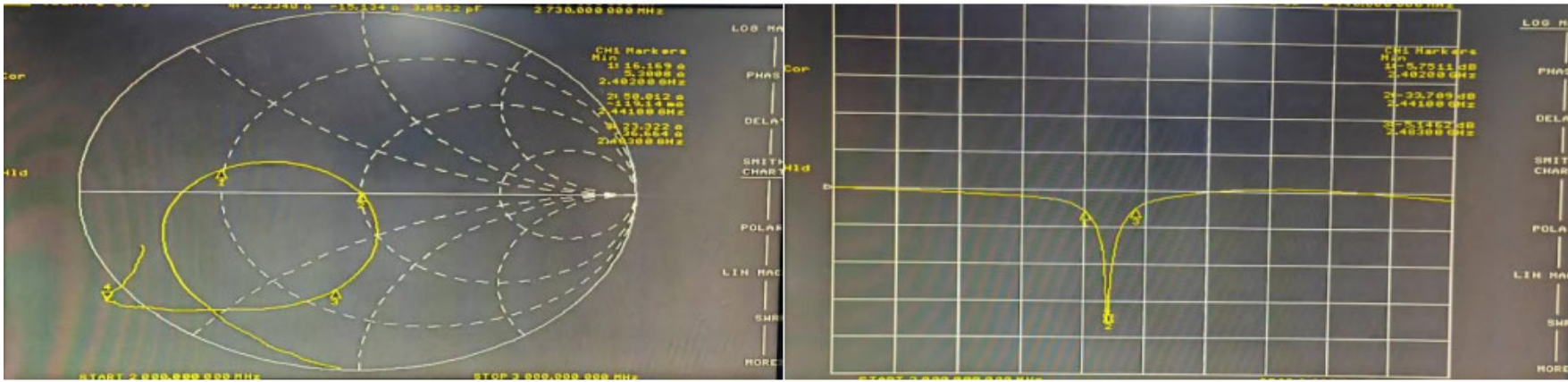
Fre.(MHz)	2402	2441	2483
S11(dB)	-08.45	-39.74	-08.66

C9天线调试参数



客户名称:	毅龙实业			
项目名称:	C9-V03 (E1)			
主控芯片:				
调试日期:	20241219			
匹配物料编号:	物料规格尺寸	匹配参数值	物料名称	物料品牌
1	0402	NC		
2	0402	0R	贴片电阻	
3	0402	NC		
4	0402	0.75pF	贴片电容	村田
5	0402	1.5pF	贴片电容	村田
6	0402	3pF	贴片电容	村田
ANT	WAN3216F245H08			万诚天线

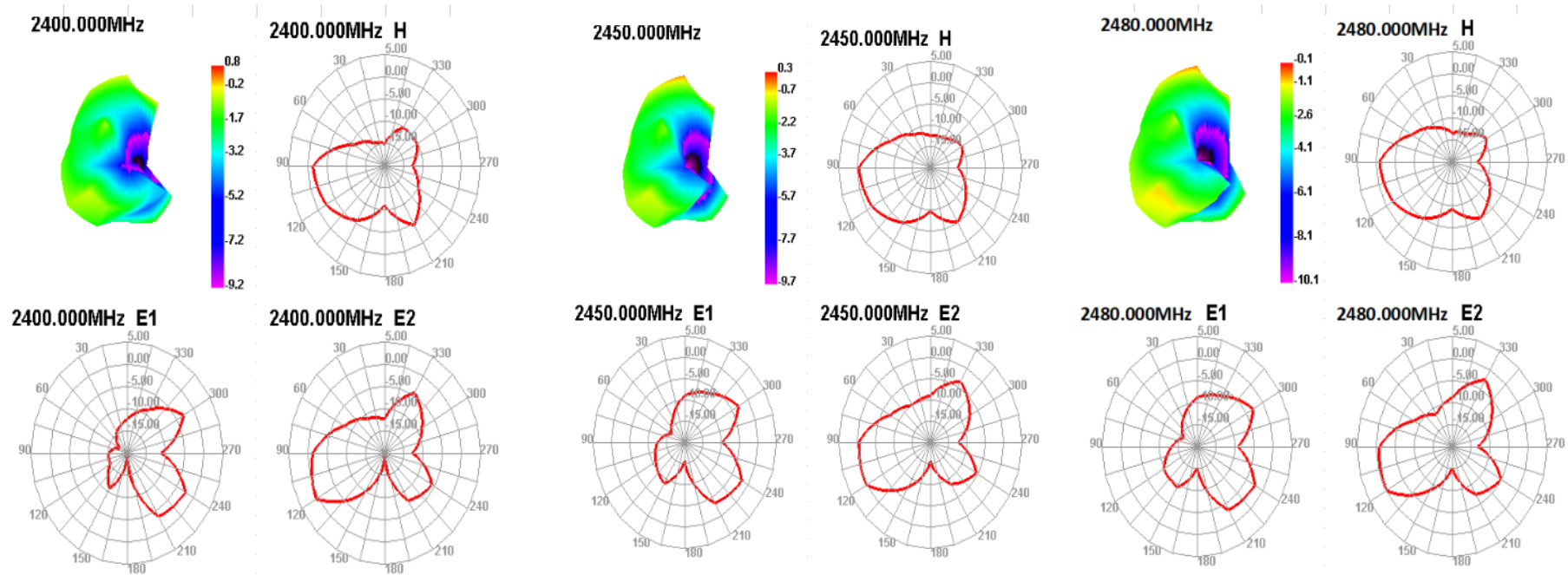
C9天线调试参数



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-7.49	-6.73	-6.14	-5.60	-5.21	-4.98	-4.92	-5.02	-5.30	-5.69	-6.23
Gain (dBi)	-2.62	-1.72	-1.16	-0.65	-0.38	-0.34	-0.49	-0.69	-1.11	-1.62	-2.16
Efficiency (%)	17.82	21.24	24.34	27.55	30.13	31.77	32.18	31.48	29.52	26.96	23.80

Peak GAIN&Efficienc

Frequency (MHz)	Efficiency (%)	Efficiency (db)	Peak GAIN (dBi)
2400	55.49	-2.6	-2.62
2450	56.29	-2.5	-0.34
2480	54.63	-2.26	-1.11



整机视图

C9-V03 机器图片

