



**We Connect • We Protect**  
**Antenna Evaluation Report**

**Customer : IAC**

**Project : Pole 3**

**Product : Wi-Fi Antenna**



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**2011.06.03**

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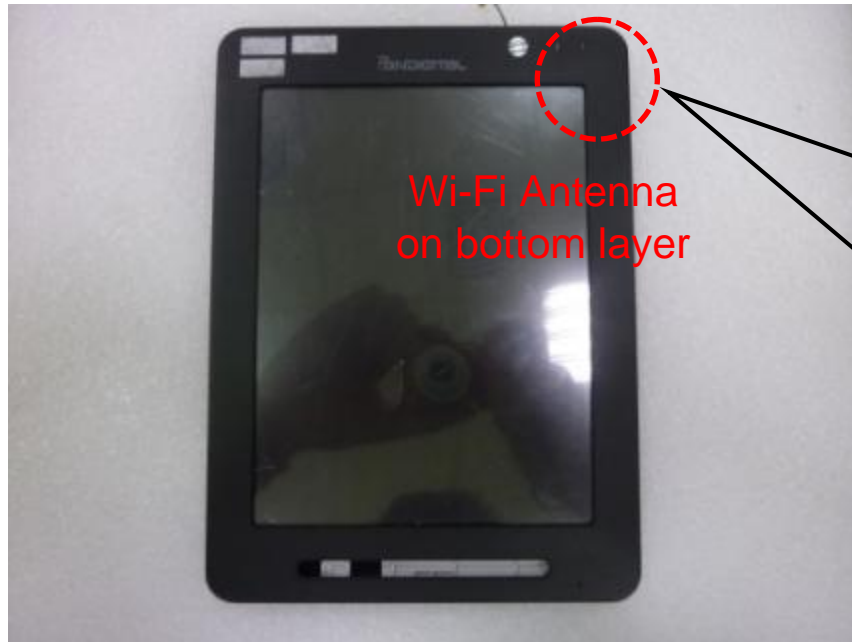


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# Product / Antenna Overview



Product View

Wi-Fi Antenna  
on bottom layer

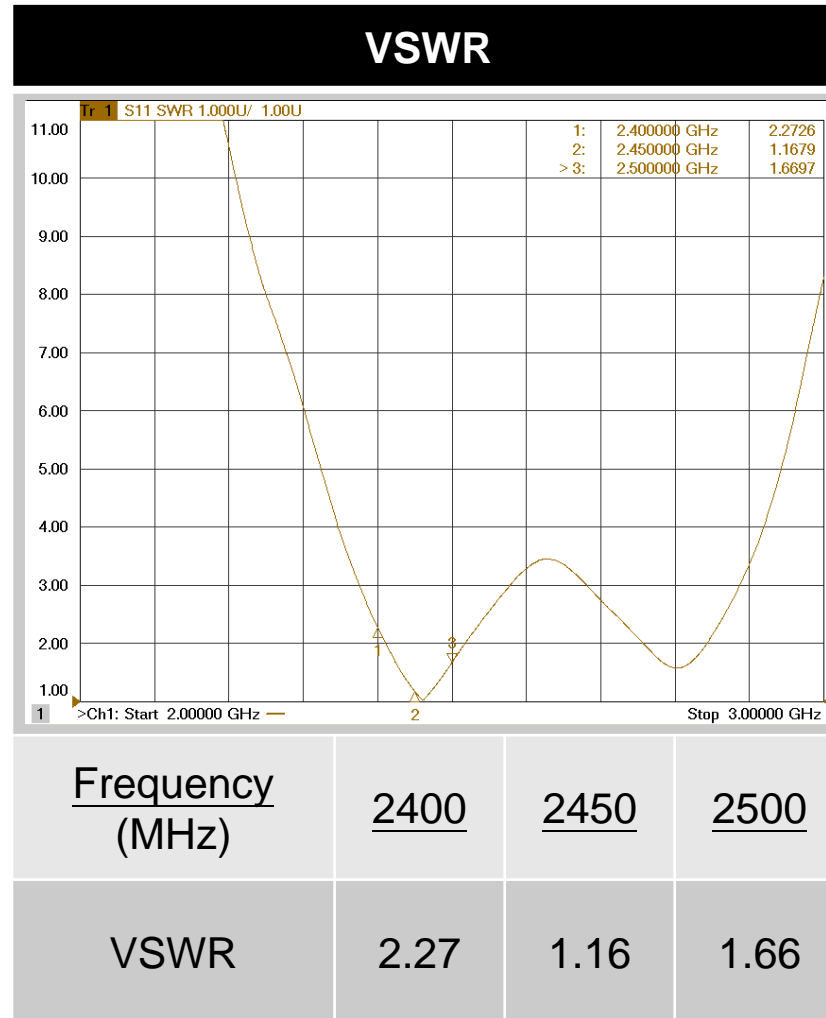
Antenna View



Antenna	Type	Frequency (MHz)	Dimensions L*W*H (mm)	PCB Layout
Wi-Fi 2.4 GHz	Chip	2400~2500	5.0*3.6*0.7	Layout A



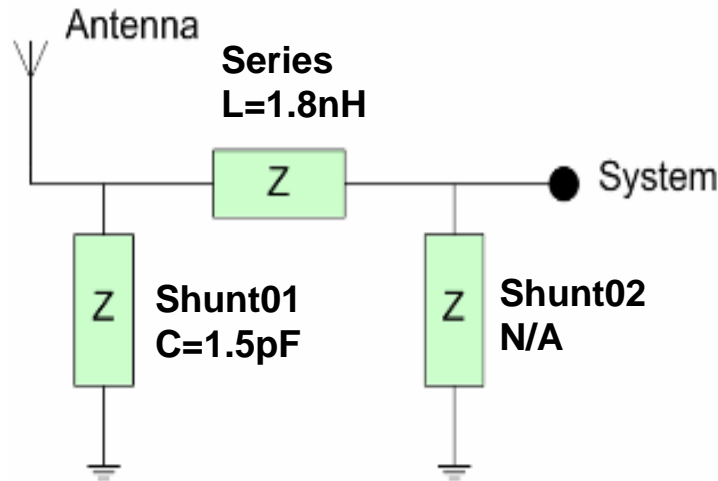
# Test Results – VSWR





# Test Results – Matching

Antenna Matching Network



Location	Description	Tolerance	Vendor	P/N
Shunt01	1.5pF	0.25pF	Murata	GRM1555C1H1R5CZ01D
Series	1.8nH	0.30nH	Murata	LQG15HN1N8S02D
Shunt02	N/A	N/A	N/A	N/A

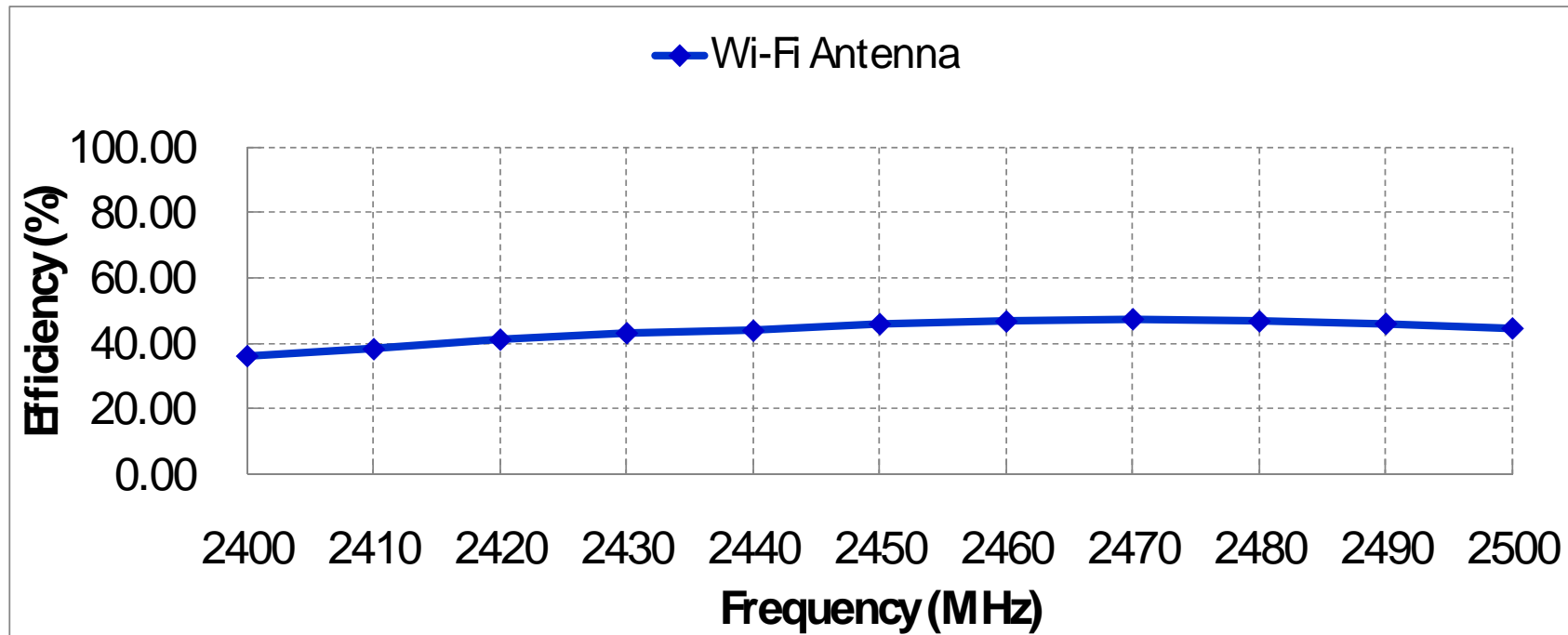


# Test Results – Gain Data

Frequency (MHz)	Peak Gain (dBi)	Average Gain (dBi)	Efficiency (%)
2400	-0.34	-4.42	36.18
2410	0.01	-4.17	38.32
2420	0.37	-3.84	41.27
2430	0.49	-3.65	43.20
2440	0.85	-3.56	44.01
2450	1.15	-3.37	46.01
2460	1.30	-3.29	46.85
2470	1.35	-3.23	47.52
2480	1.31	-3.29	46.90
2490	1.13	-3.36	46.12
2500	0.88	-3.50	44.70



# Test Results – Efficiency







# Test Results – 3D Rad. Pattern

## 3D Radiation Pattern at 2450 MHz

