

Winmate Inc.

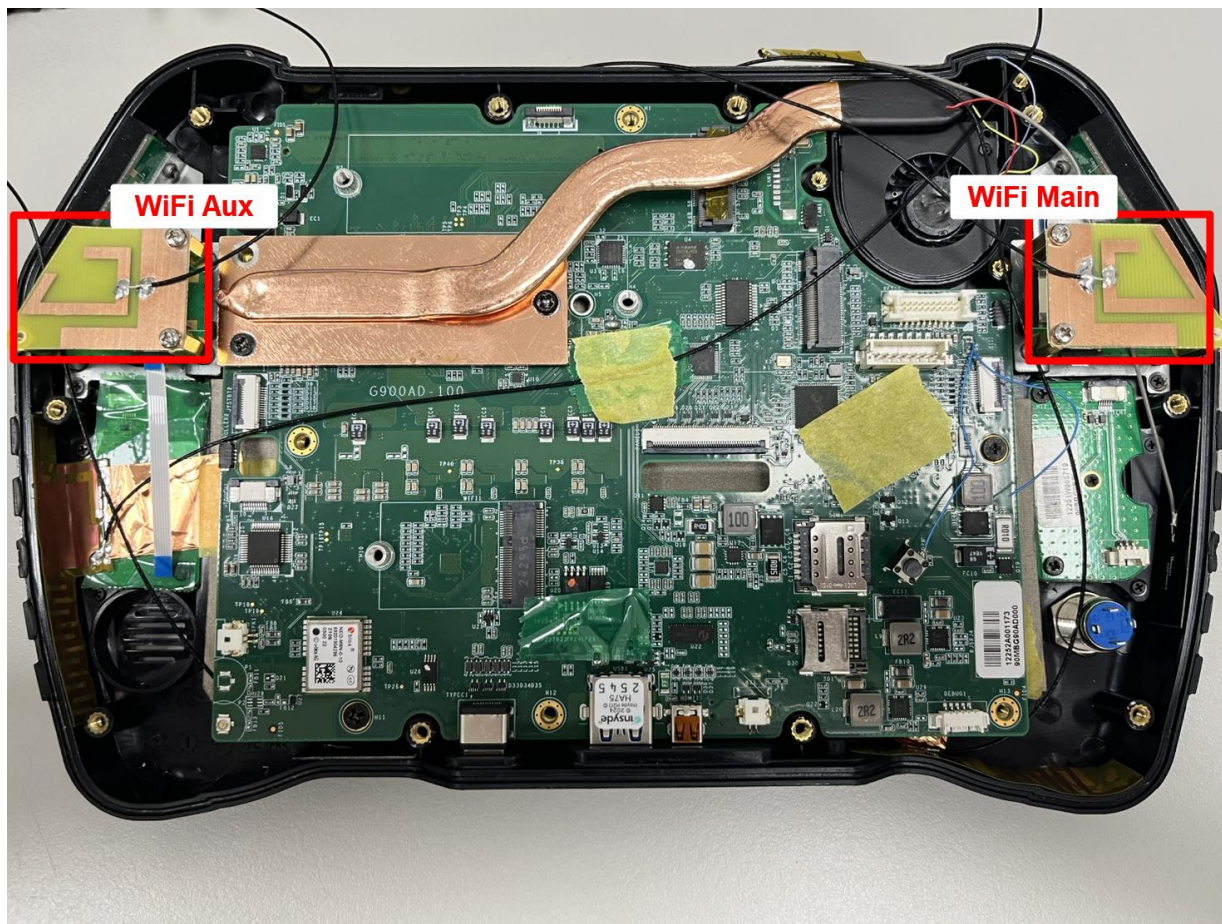
AntennaSpecification

Project :G900AD
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1. Antenna Placement



2. Wi-Fi Main Antenna Specification

Winmate Part Number: 90RF05000030

2.1. Electrical Characteristics

Frequency(MHz): 2400-2500

SWR: ≤ 1.59

Peak Gain: 3.58dBi

Impedance: 50ohm

Polarization: Linear

2.2. Mechanical Characteristics

Cable: 50 Ω ϕ 0.81 RF cable

Connector: MHF4

PCB: FR4 /Thickness 0.6mm

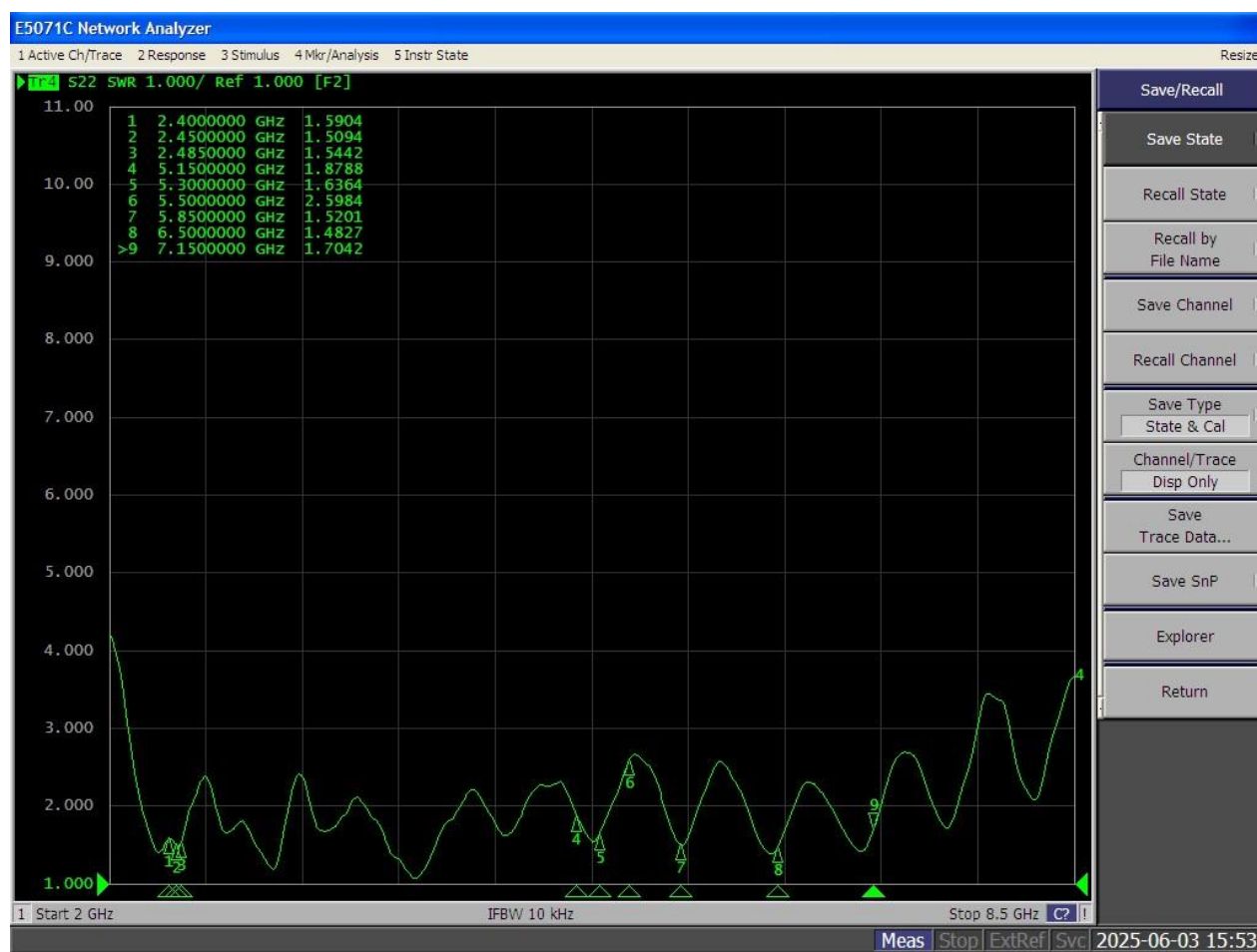
Type: Monopole

2.3. Environmental Characteristics

Operating Temperature: -30°C to 80°C

2.4. RF Performance Characteristics

2.4.1. SWR

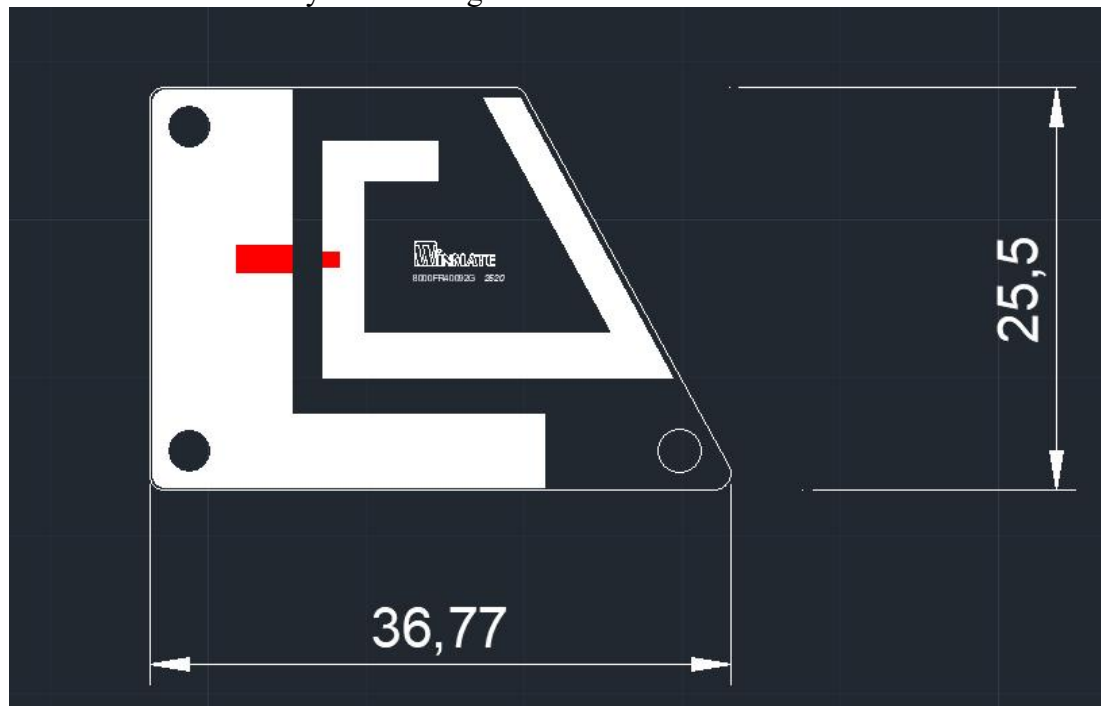


2.4.2. Gain / Efficiency

Frequency	2400	2450	2484	2500
Directivity (dBi)	7.36	6.58	6.25	6.09
Efficiency (dB)	-2.33	-2.17	-1.67	-1.64
Efficiency (%)	58.51	60.67	68.13	68.57
Peak Gain (dBi)	3.03	3.41	3.58	3.45

2.5. Drawing

WiFi Main Antenna Layout Drawing



RF cable Drawing



3. WiFi Aux Antenna Specification

Winmate Part Number: 90RF0600002Q

3.1. Electrical Characteristics

Frequency(MHz): 2400-2500

SWR: ≤ 1.65

Peak Gain: 3.11 dBi

Impedance: 50ohm

Polarization: Linear

3.2. Mechanical Characteristics

Cable: 50 Ω ϕ 0.81 RF cable

Connector: MHF4

PCB: FR4 /Thickness 0.6mm

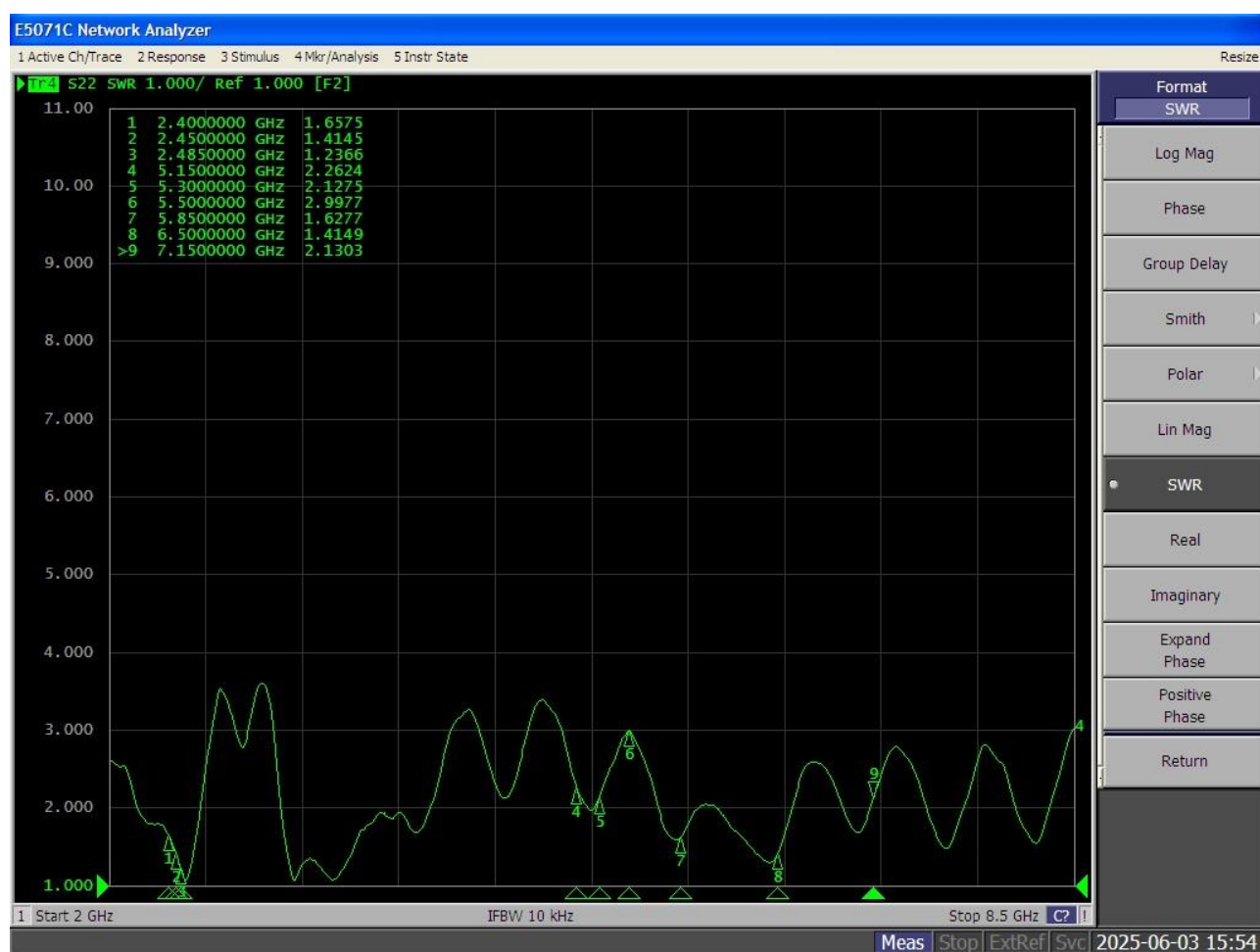
Type: Monopole

3.3. Environmental Characteristics

Operating Temperature: -30°C to 80°C

3.4. RF Performance Characteristics

3.4.1 SWR

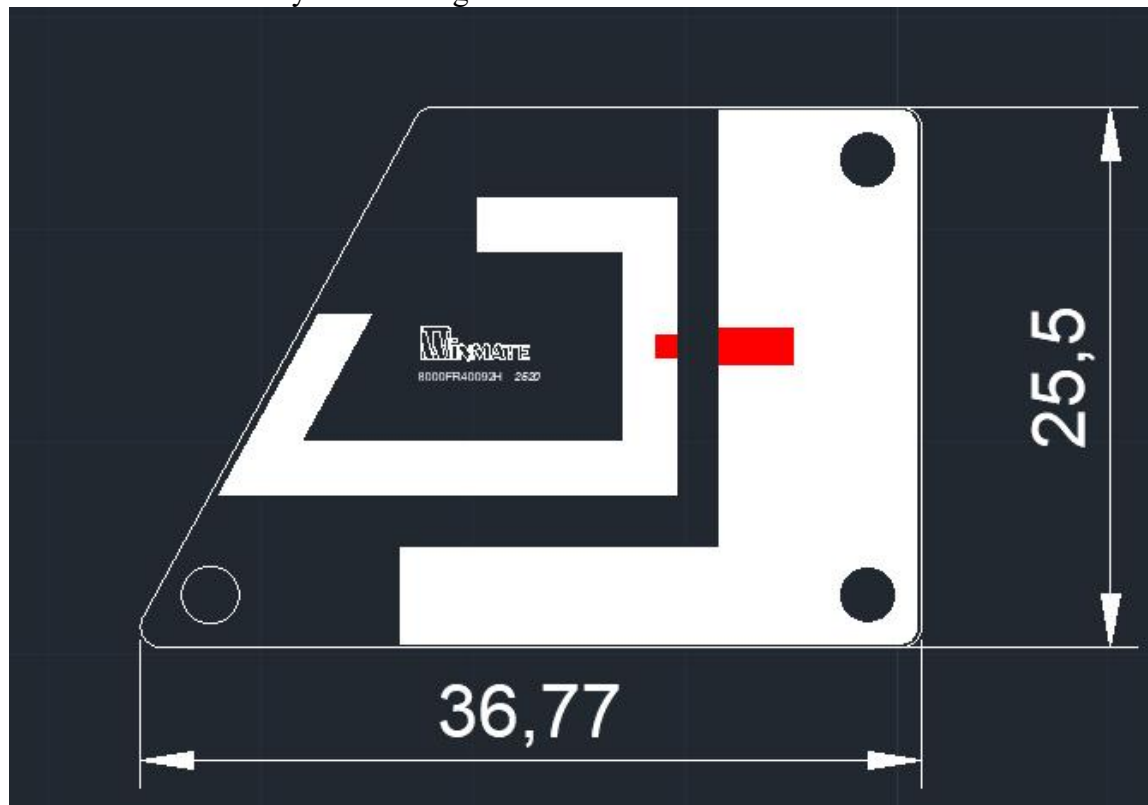


3.4.2. Gain / Efficiency

Frequency	2400	2450	2484	2500
Directivity (dBi)	5.74	5.64	5.74	5.87
Efficiency (dB)	-3.40	-3.29	-2.78	-2.76
Efficiency (%)	45.69	46.87	52.72	52.97
Peak Gain (dBi)	2.34	2.35	2.96	3.11

3.5. Drawing

WiFi Aux Antenna Layout Drawing



RF Cable Drawing

