

SPEC NO.	SP03AF24508-0650	ISSUED DATE	2020.11.06	PUBLISHED BY
PRODUCT NAME	EWFAWAW0	VERSION	d02	
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CIROCOMM TECHNOLOGY .

PART NUMBER : 03N15E03030020T

1. SCOPE

Cirocomm's customized **External WIFI Antenna**.

2. Name of the product

This product is named "**External WIFI Antenna**".

3. Electrical characteristics

3-1 Electrical characteristics of antenna

The antenna has the electrical characteristics given in Table 1 under the cirocomm standard installation conditions.

Table 1

No	Parameter	Specification
1	Work Frequency	2400~2484MHz
2	Impedance	50 Ohm
3	Connector	RP-SMA
4	Inner Cable	RG174
5	Temperature Range	- 40°C to +85°C
6	Polarization	Linear (Vertical)
7	Dimension (mm)	106.7x14.7x5.8mm
8	Humidity	Non-condensing 65°C 95% RH

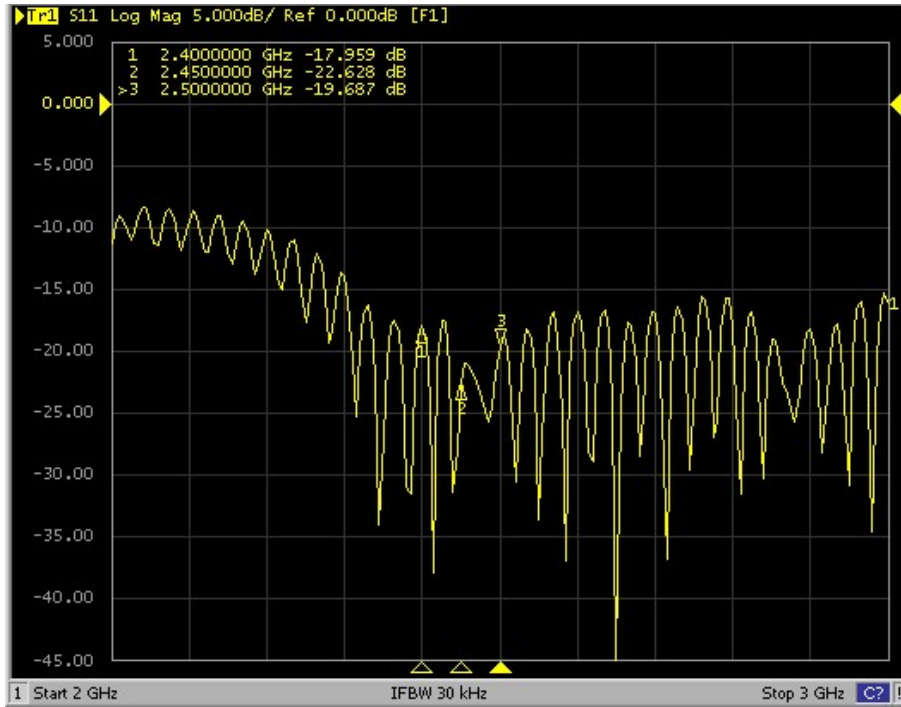
VSWR base on special point with free space.



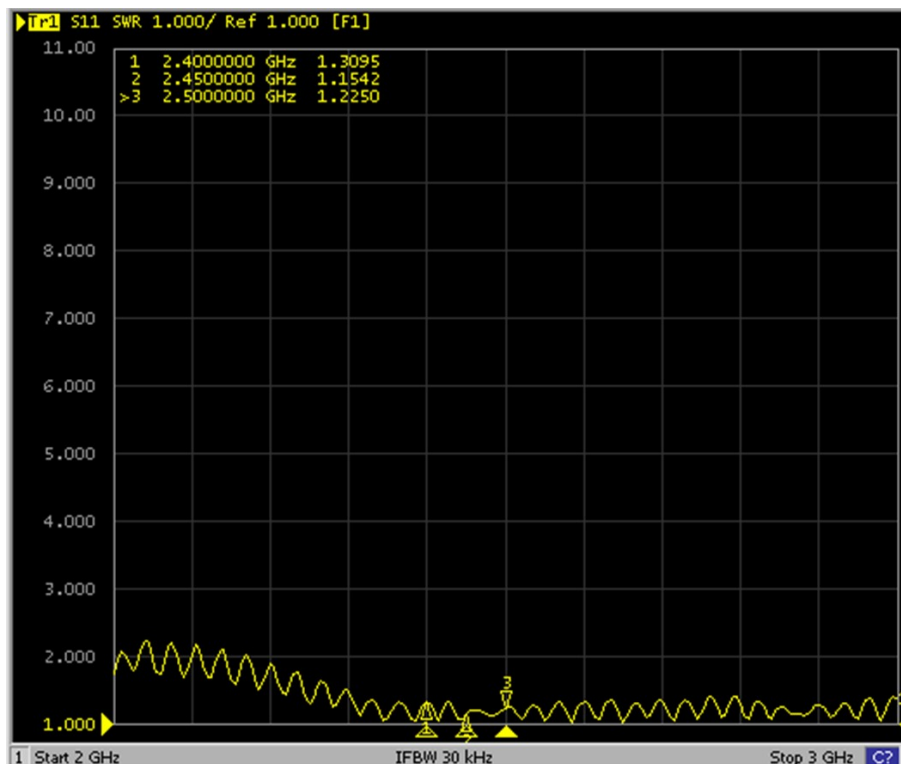
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3-2 Return Loss

EWFAWAW0 is placed on a piece of Styrofoam on an empty carton for measuring free space return loss. Agilent E5071C Network Analyzer is used for the S11 measurement. The measurement data is by 3000mm RG174 cable.



EWFAWAW0 Return Loss in free Space.

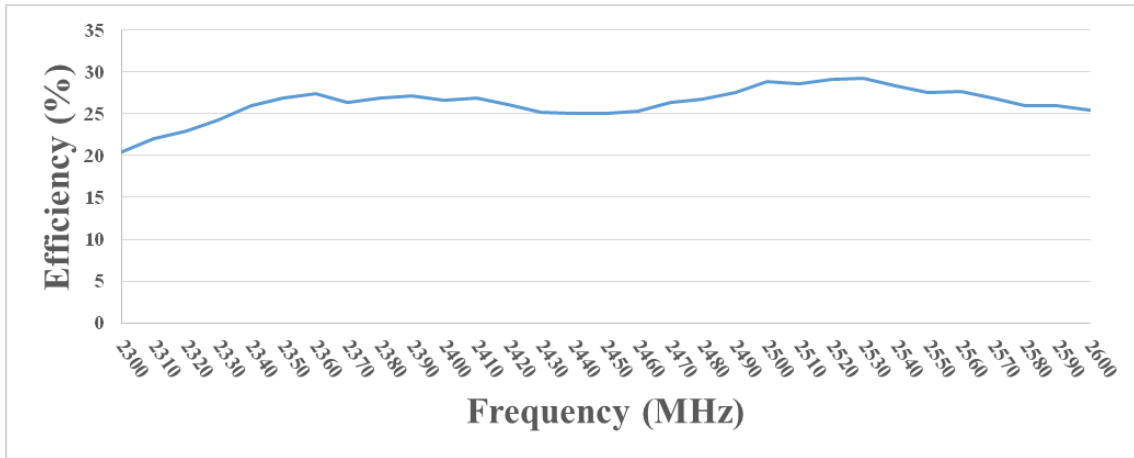


EWFAWAW0 VSWR in free Space.

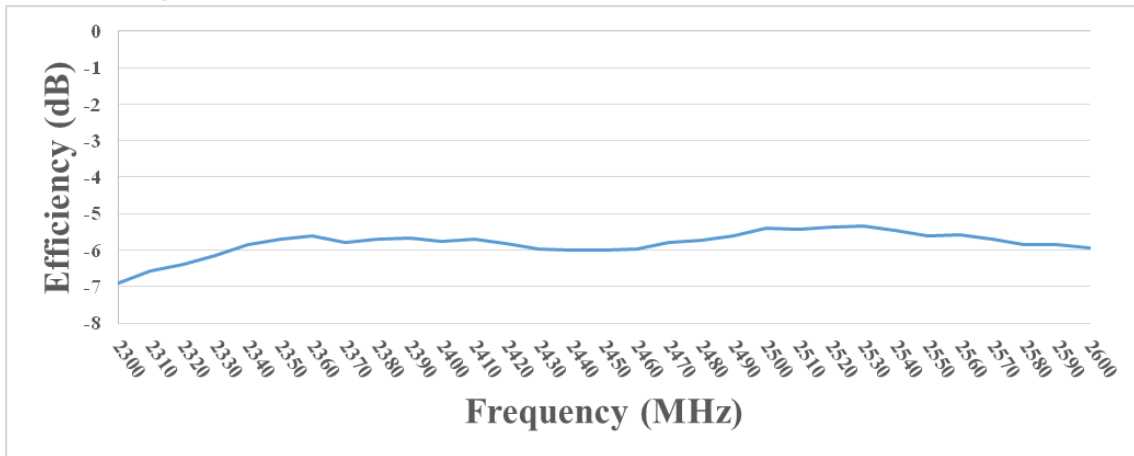


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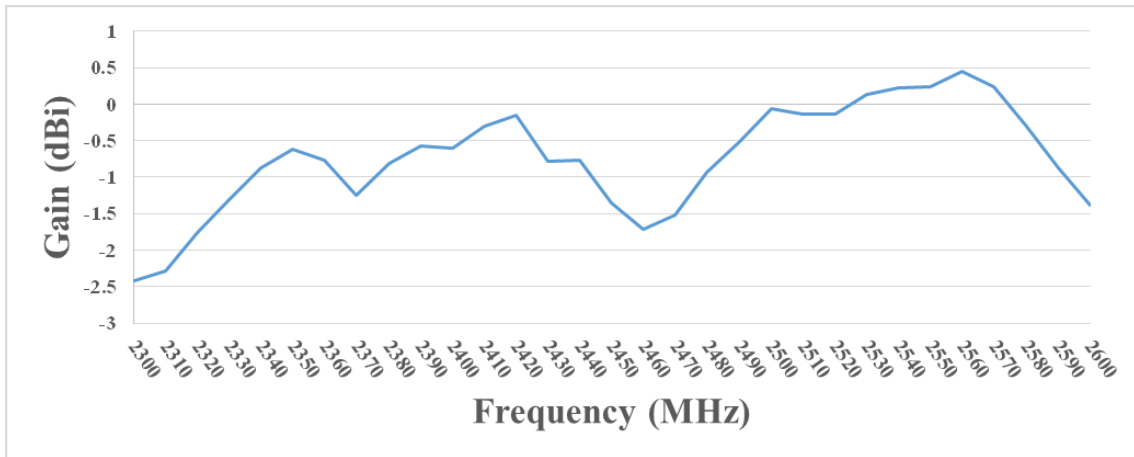
Antenna Efficiency :



Antenna Average Gain :



Antenna Peak Gain:



Frequency (MHz)	2400	2450	2500
Efficiency (%)	26.58	25.11	28.82
Average Gain(dB)	-5.75	-6.00	-5.40
Peak Gain(dBi)	-0.60	-1.35	-0.06



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4. MECHANICAL & ENVIRONMENT CHARACTERISTIC

4-1 High Temp. Storage

Expose the antenna to +85°C for 16 hours soak then check it against our specifications.

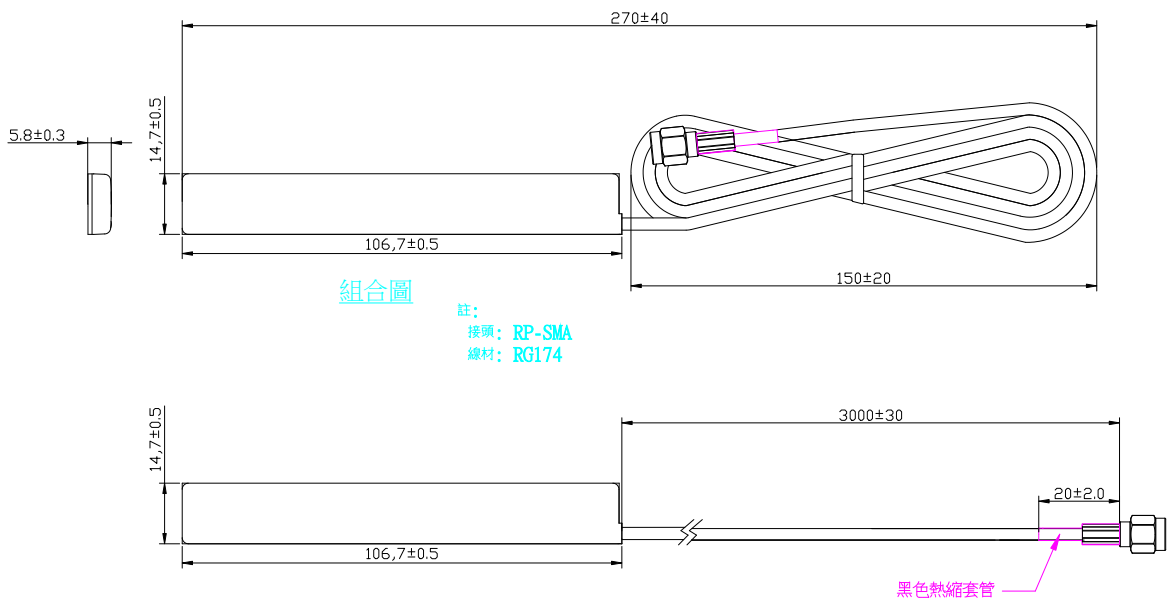
4-2 Low Temp. Storage

Expose the antenna to -40°C for 16 hours soak then check it against our specifications.

4-3 Salt Spray

Antenna be exposed in a 35°C +5% salt fog chamber for 8 hours then check the appearance and performance against the specifications in normal temperature.

5. ME drawing



Unit: mm