

SPEC NO.	SP03AF24508-0660	ISSUED DATE	2024.10.14	PUBLISHED BY
PRODUCT NAME	FSAJSC01	VERSION	02	
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SPECIFICATION

SPEC NO.

:

SP03AF24508-0660

PART NO.

:

03C15E3K0B0010T

PRODUCT NAME

:

FSAJSC01

DESCRIPTION

:

WIFI Antenna with PCB

RoHS Compliant Product

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
01	2021.06.25	Whole	New Issued.	翁秀惠	馬得淞	張敦信、吳佳宗
02	2024.10.14	P.3~5	Update test data.	翁秀惠	馬得淞	張敦信、吳佳宗

Prepared By	Checked By	Approved By
翁秀惠	馬得淞	張敦信 吳佳宗

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CIROCOMM TECHNOLOGY .

PART NUMBER : 03C15E3K0B0010T

1 SCOPE

This specification covers the Planer Inverted-F Antenna for ISM Band.

2 Name of the product

This product is named "FSAJSC01".

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 shown in the figure of Evaluation Board.

Table 1

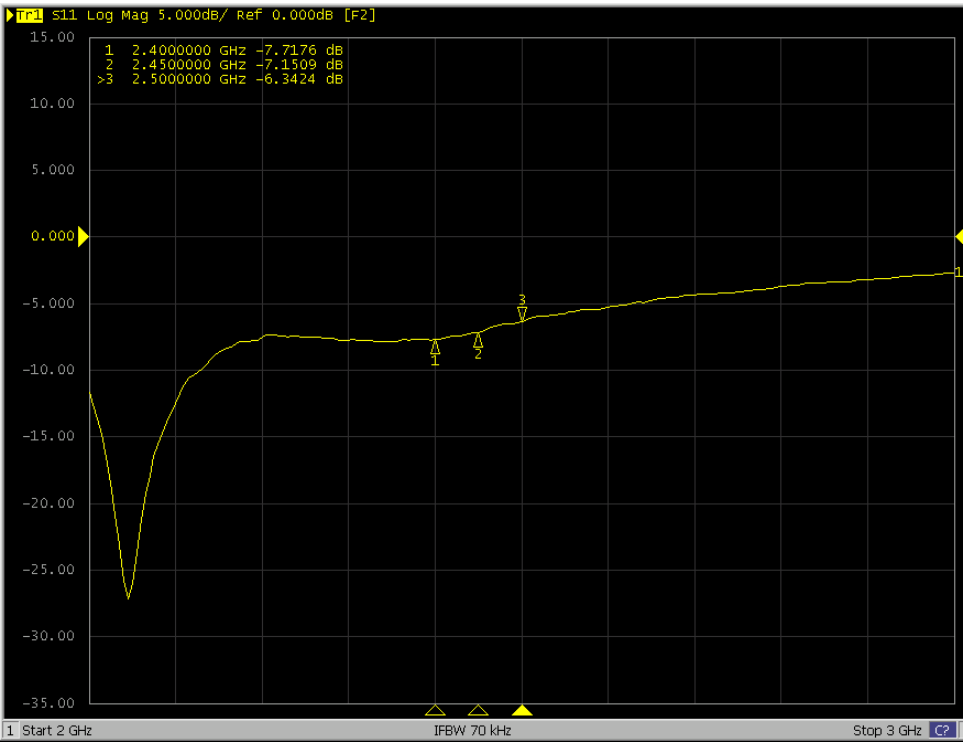
No	Parameter	Specification
1	Work Frequency	2400~2500 MHz
2	Center Frequency	2450 MHz
3	Dimension	47×6×1mm
4	Polarization	Linear
5	Impedance	50 Ohm
6	Operating Temperature	-40~85°C

* Actual performance will depend on customer device environment.

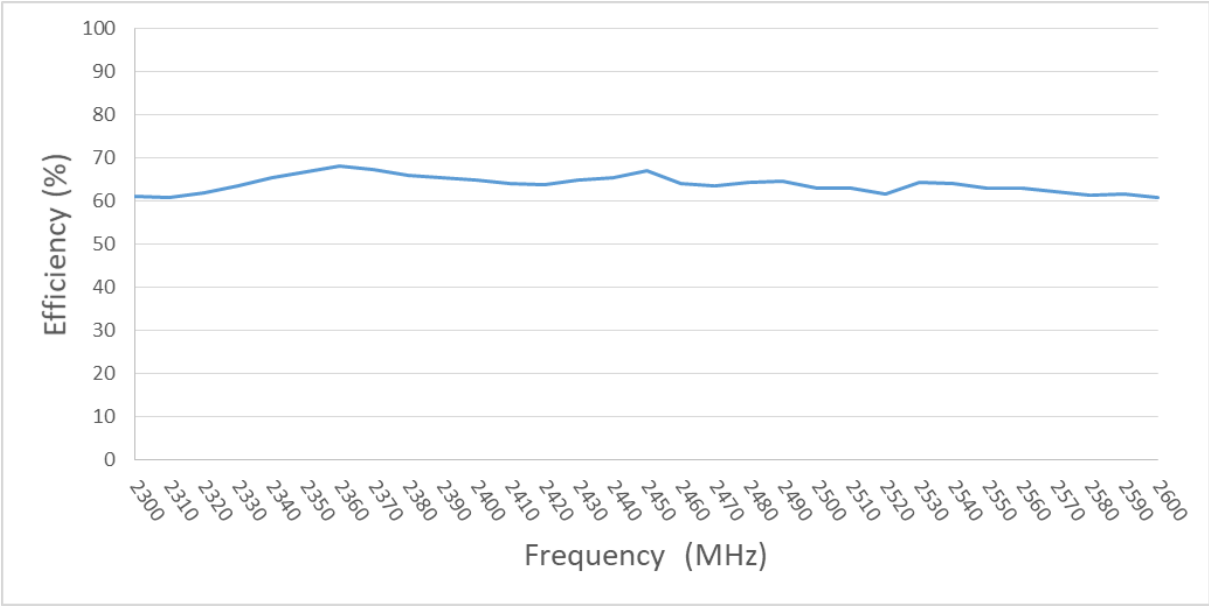


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3.2 S11 Response curve

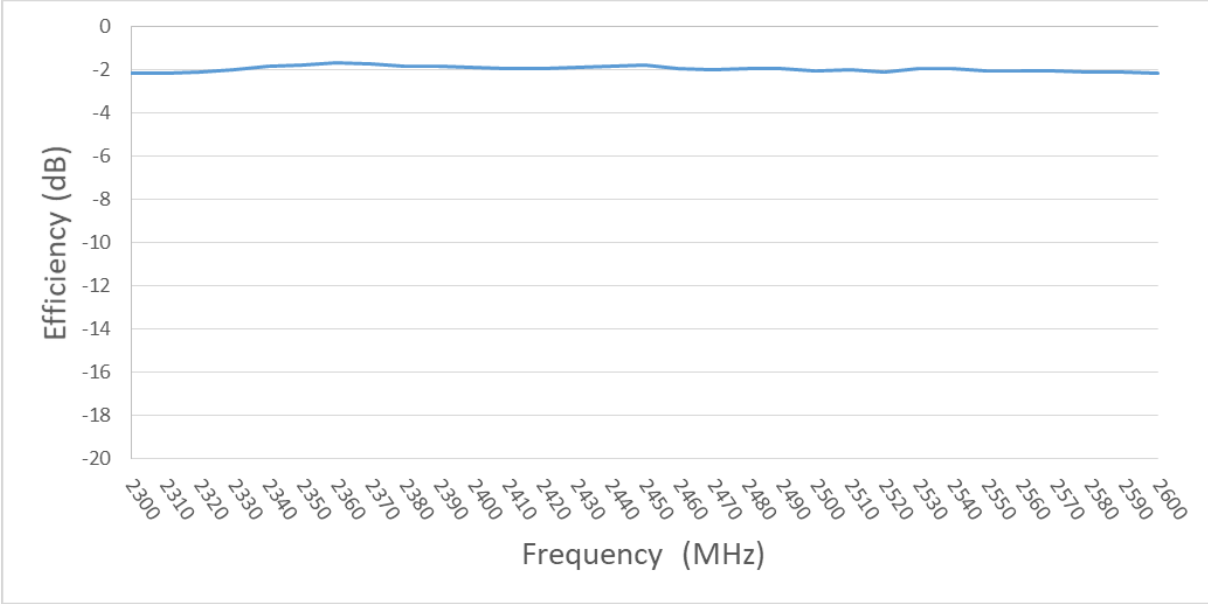


Efficiency

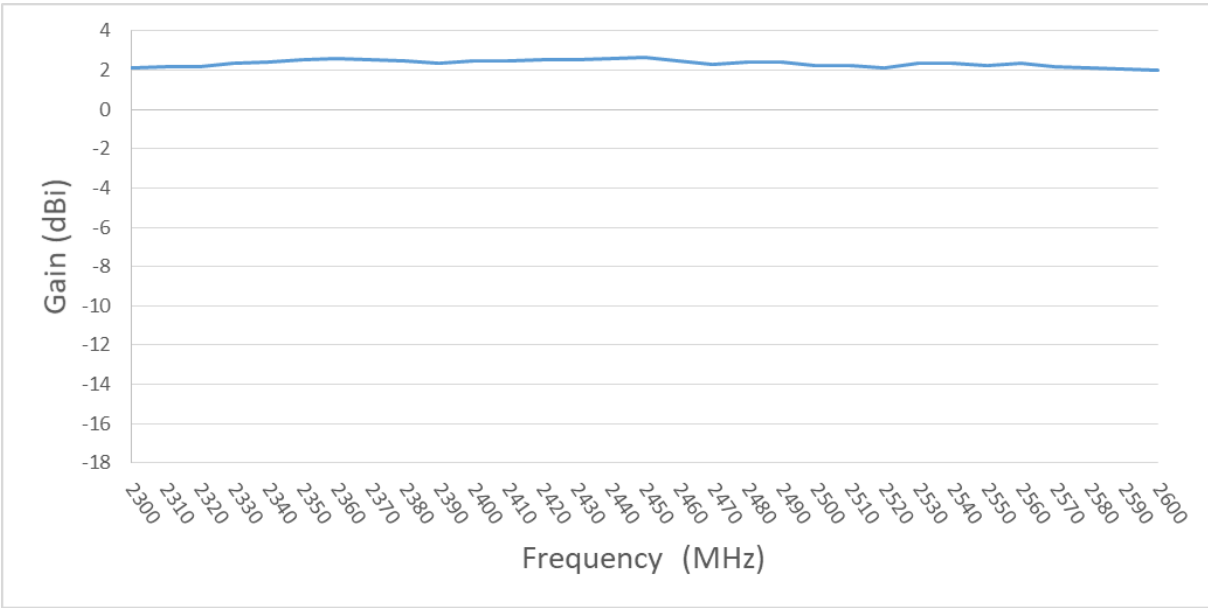


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Average Gain(dB)



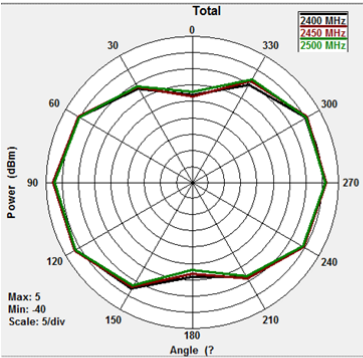
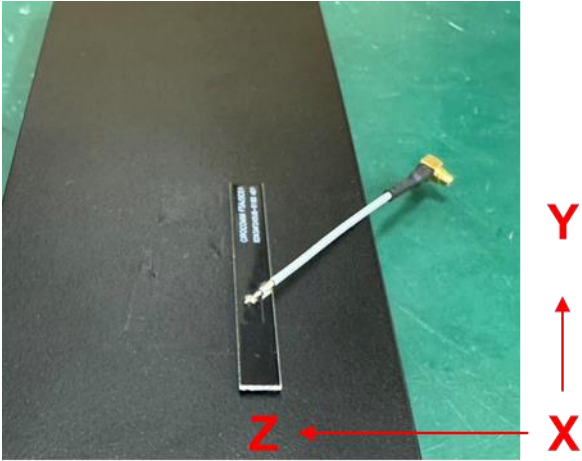
Peak Gain(dBi)



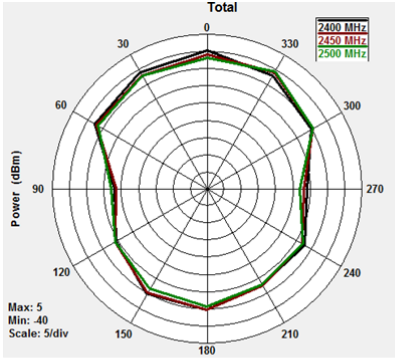
Frequency (MHz)	2400	2450	2500
Efficiency (%)	65.00	67.00	62.99
Efficiency (dB)	-1.87	-1.74	-2.01
Gain (dBi)	2.47	2.65	2.25

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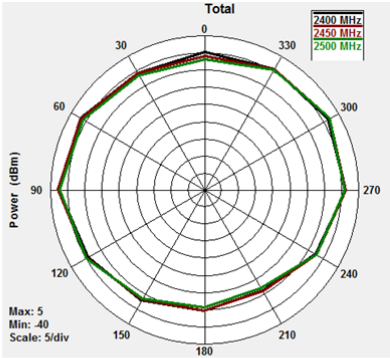
3.3 2/3D Pattern



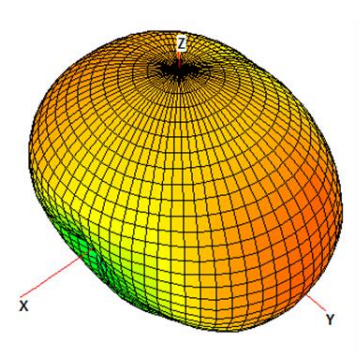
XY-Plane



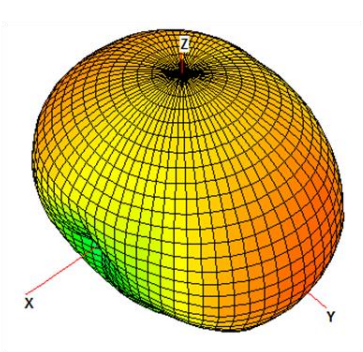
XZ-Plane



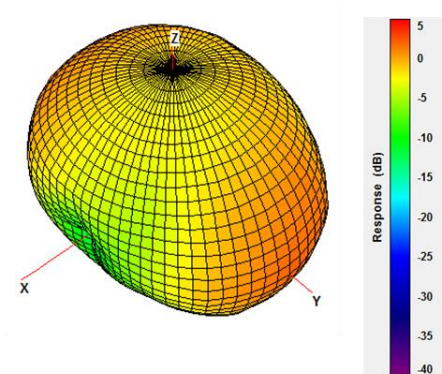
YZ-Plane



2400Mhz



2450Mhz



2500Mhz

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4 Environmental conditions

4-1 Operating conditions

The antenna has the electrical characteristics given in Tables 1 in the temperature range of -40°C to +85°C and under the environmental conditions of +40°C and 0-95% r.h..

4-2 Storage temperature range

The storage temperature range of product is -40°C to +85°C

5 Reliability tests

The decision standard of the confirmation of the movement is doing the characteristic electric standard of the antenna module. And, the decision standard of the appearance isn't thought function problem become defect be.

5-1 Low-temperature test

Expose the specimen to -40°C for 16 hours and then to normal temperature/ humidity for 24 hours or more. After that examine the appearance and functions.

5-2 High-temperature test

Expose the specimen to +85°C for 16 hours and then to normal temperature/ humidity for 24 hours or more. After that examine the appearance and functions.

6 Inspection

As for the examination in the mass production, the receiving character of the ratio wave sent in a shield box from the standard antenna and VSWR are confirmed in the picking out examination.

7 Warranty

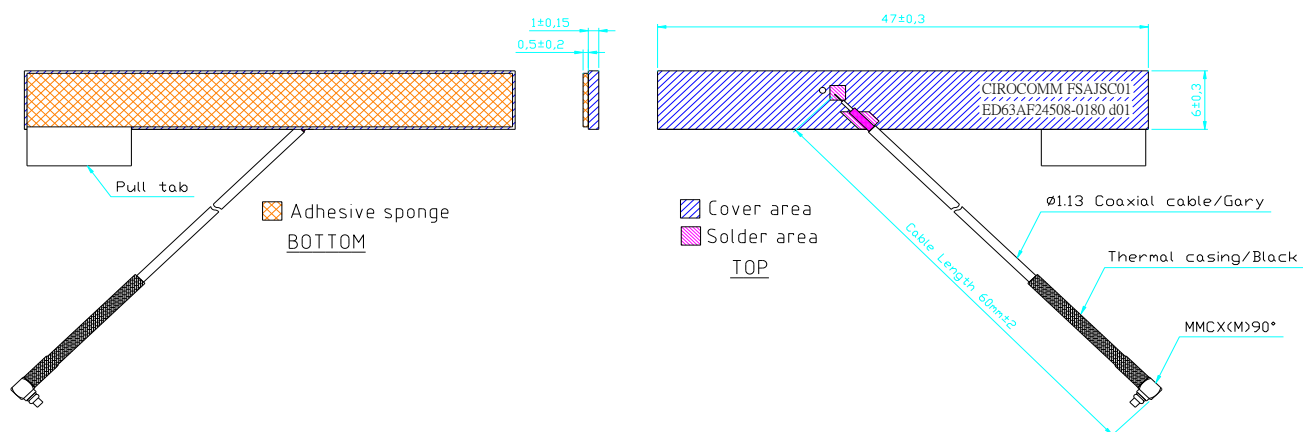
If any defect occurs form the product during proper use within a year after delivery, it will be repaired or replaced free of charge.

8 Other

Any question arising from this specification manual shall be solved by arrangement made by both parties.

9 Drawings

ANTENNA



Unit: mm

