

SPEC NO.	SP03AC24508-0141	ISSUED DATE	2020.02.05	PUBLISHED BY
PRODUCT NAME	FSAJ0I22	VERSION	01	
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SPECIFICATION

SPEC NO. : SP03AC24508-0141

PART NO. : 03C15C030E0D10T

PRODUCT NAME : FSAJ0I22

DESCRIPTION : FR4 Single-Band Antenna
RoHS

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
01	2020.02.05	Whole	New Issued.	翁秀惠	呂秉群	張敦信、吳佳宗

Prepared By	Checked By	Approved By
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PART NUMBER : 03C15C030E0D10T

1 SCOPE

CIROCOMM's customized **FR4 Single-Band Antenna** covers for WIFI Band.

2 Name of the product

This product is named "FR4 Single-Band Antenna ".

3 Electrical characteristics

3-1 Electrical characteristics of antenna

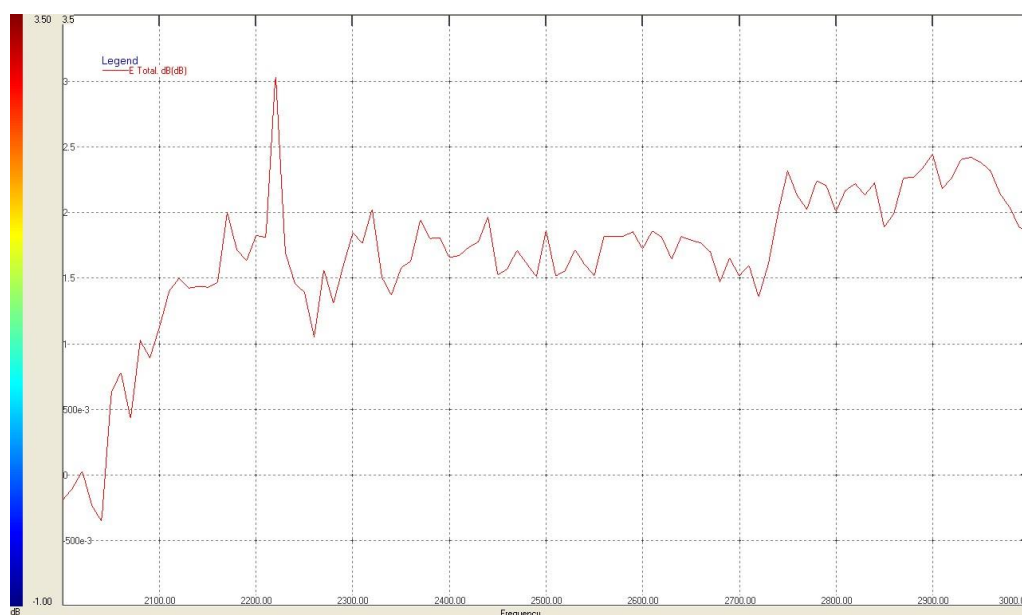
The antenna has the electrical characteristics given in Table 1 under the *CIROCOMM* standard installation conditions shown in the figure of Evaluation Board.

Table 1

No	Parameter	Specification
1	Working Frequency	2400-2500 MHz
2	Dimension	47.8*12.45*1 mm
3	Polarization	Linear
4	Operating Temperature	- 40℃ to +85℃

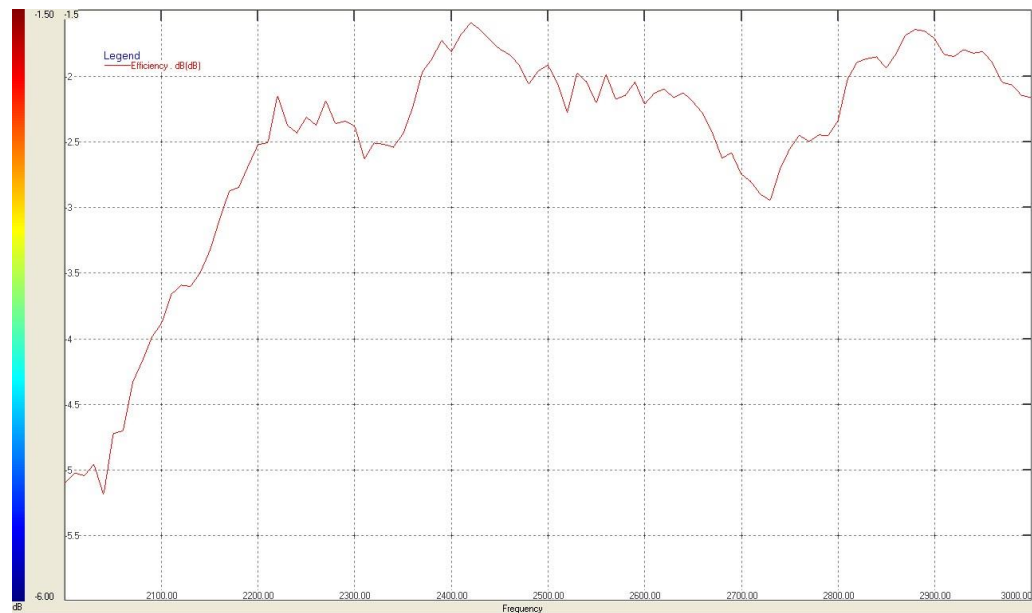
* Actual value will depend on customer ground plane size.

WIFI Antenna Peak Gain



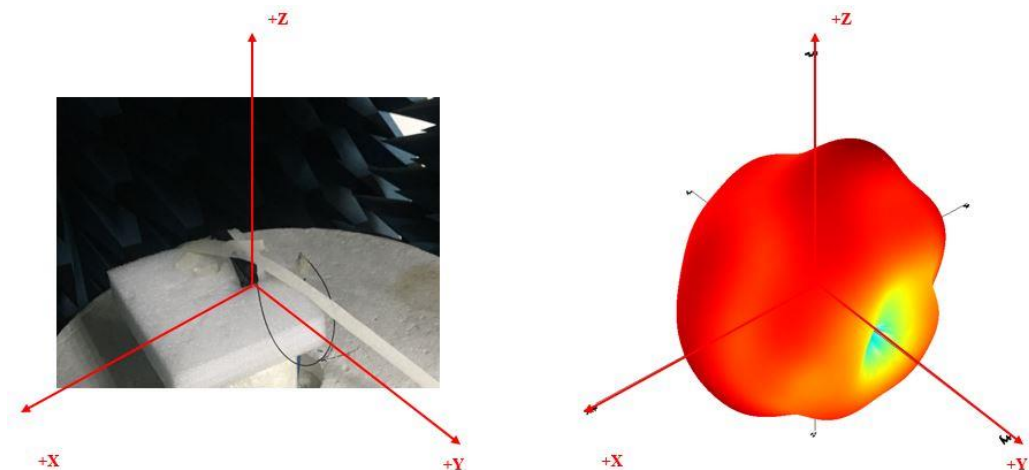
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WIFI Antenna Average Gain



Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	1.65	1.52	1.86
Average Gain (dBi)	-1.81	-1.79	-1.91

3D Radiation Pattern



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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 from 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