

SPEC NO.	SP03AG2450E-0130	ISSUED DATE	2023.04.19	PUBLISHED BY
PRODUCT NAME	ESAJ0I27	VERSION	d01	

SPECIFICATION

SPEC NO. : SP03AG2450E-0130

PART NO. : 03P15G030o0010T

PRODUCT NAME : ESAJ0I27

DESCRIPTION : **Embedded Single-Band Antenna**
RoHS 2.0 & Halogen Free

REVISION STATUS

Prepared By	Checked By	Approved By
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CIROCOMM TECHNOLOGY .

PART NUMBER : 03P15G030o0010T

1 SCOPE

CIROCOMM's customized **Embedded Single-Band Antenna** covers the 2400~2500MHz.

2 Name of the product

This product is named "**Embedded 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.

Table 1

No.	Parameter	Specification
1	Working Frequency	2400~2500MHz
2	Dimension(FPC)	29.39x16.7x0.15 mm
3	Polarization	Linear
4	Operating Temperature	- 30°C to +80°C

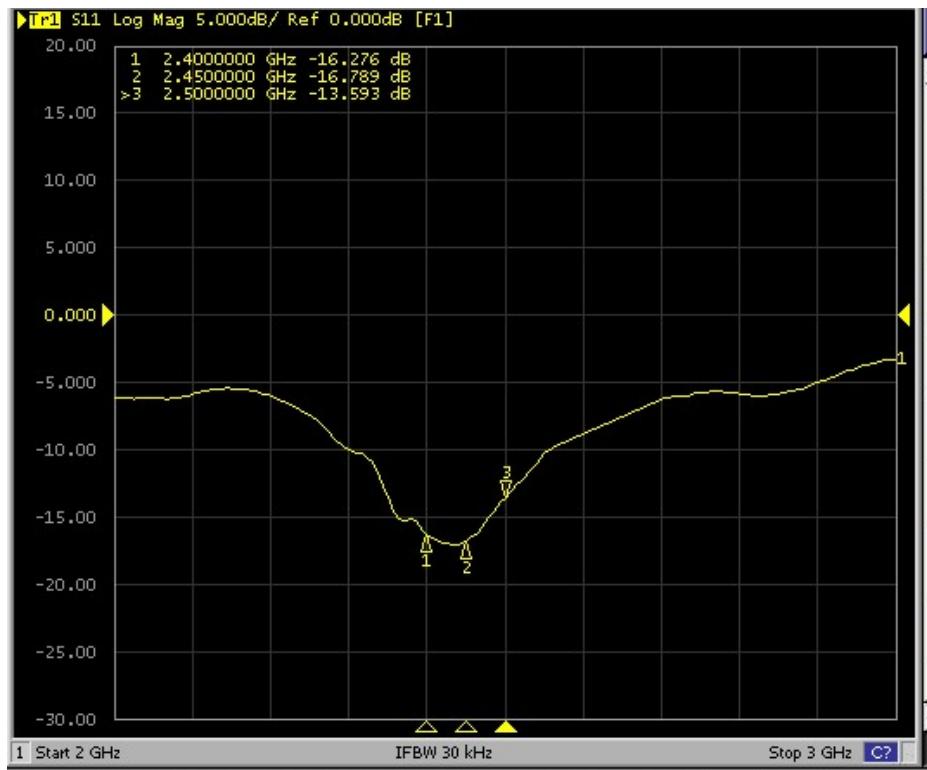
* Actual value will depend on customer device.

Environment

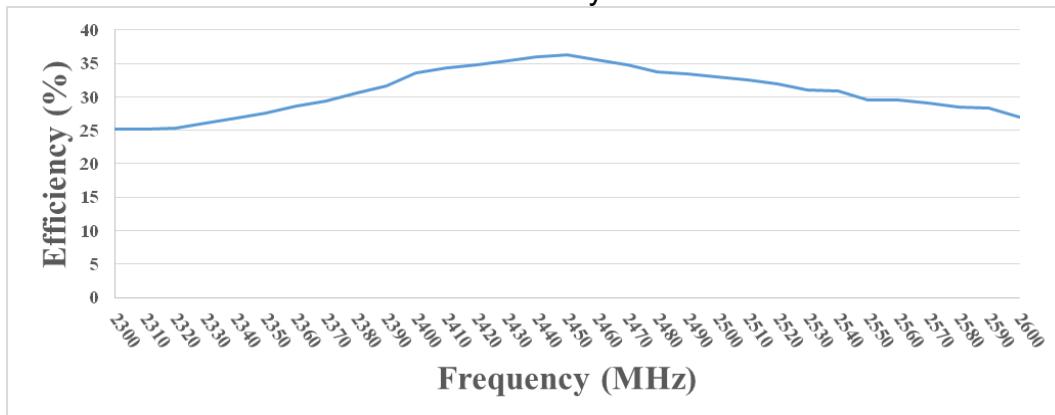


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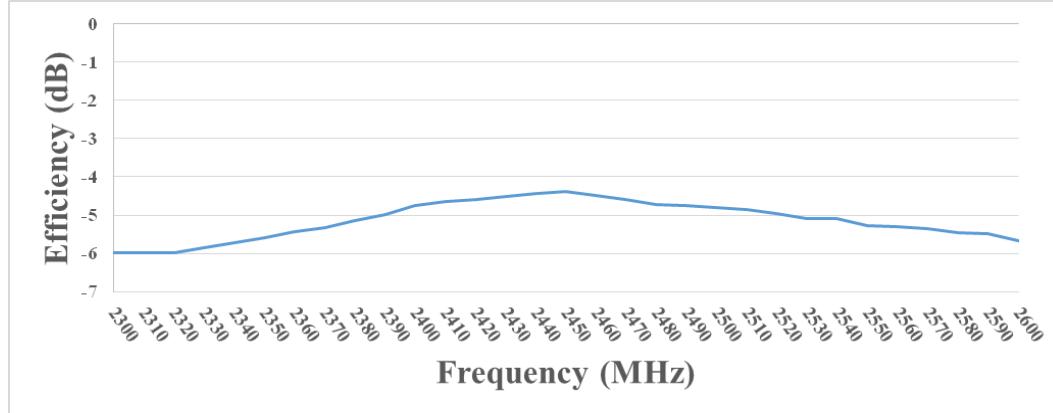
3-2 S11 Response curve



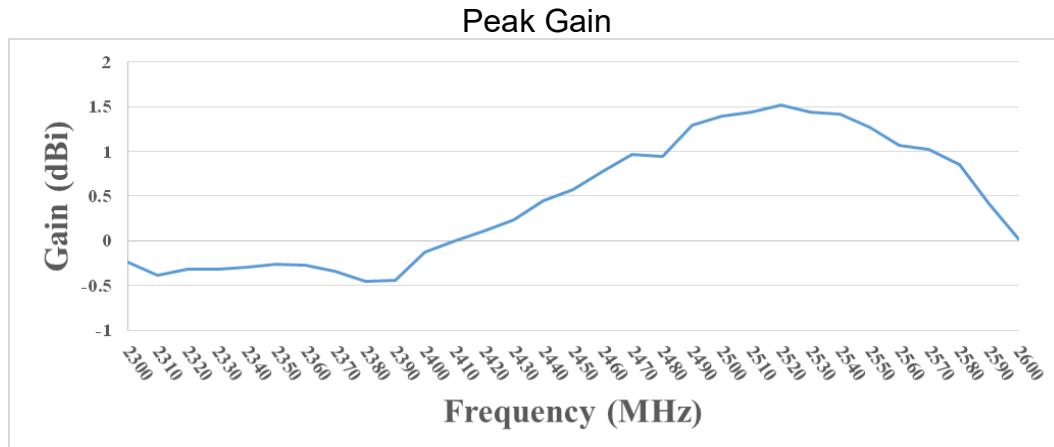
Efficiency



Average Gain

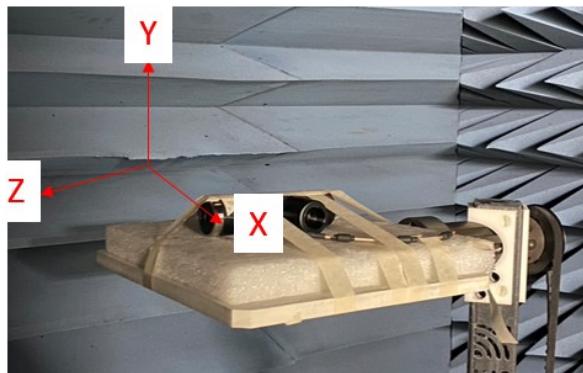


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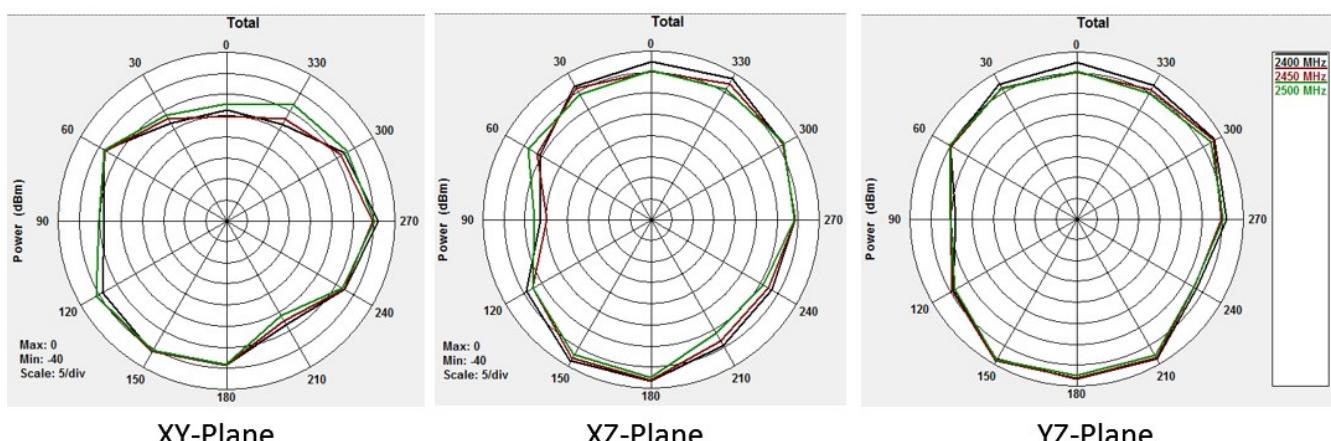


Frequency (MHz)	2400	2450	2500
Efficiency (%)	33.60	36.68	33.01
Average Gain (dB)	-4.74	-4.39	-4.81
Peak Gain (dBi)	-0.13	0.57	1.40

3-3 2D and 3D Radiation Pattern:

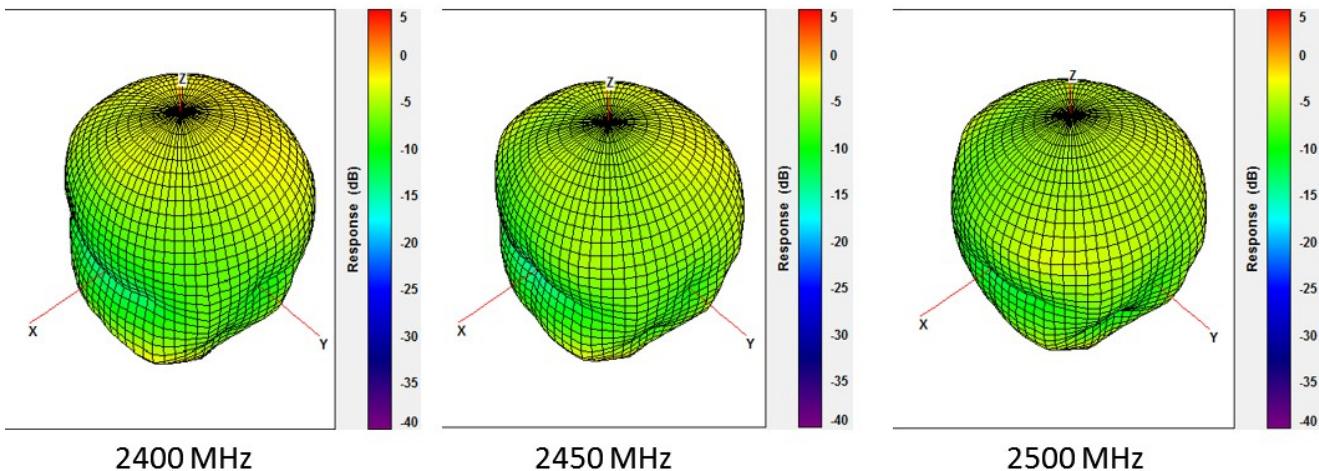


2D pattern



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3D pattern



4 Environmental conditions

4-1 Operating conditions

The antenna has the electrical characteristics given in Tables 1 in the temperature range of -30°C to +80°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 -30°C to +80°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 -30°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 +80°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 S11 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.

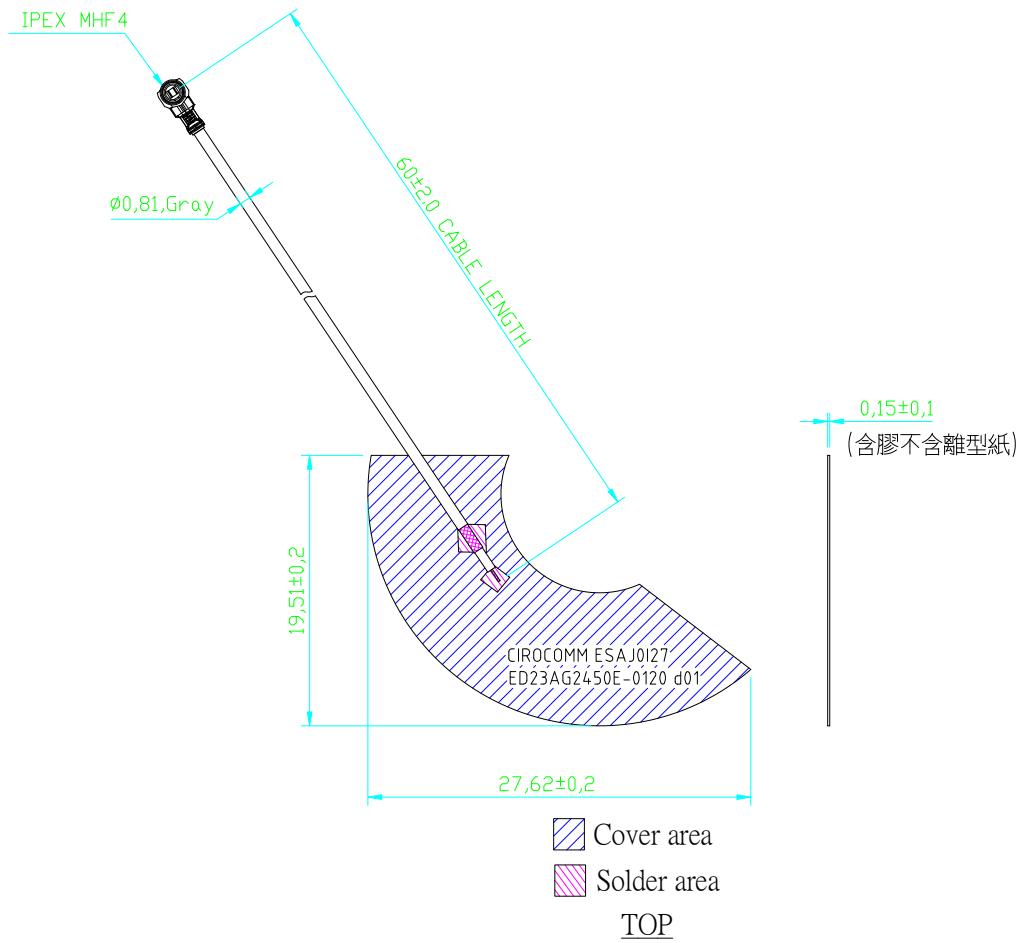
8 Other

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

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9 Drawings

ANTENNA



Unit: mm

Manufacturer:Leadtek Japan

Address:8F, TSK Sasazuka BL., 2-19-2 Sasazuka, Shibuya-Ku, Tokyo, Japan 151-0073