

SPEC NO.	SP03AF2450E-0630	ISSUED DATE	2022.09.23	PUBLISHED BY
PRODUCT NAME	EDAH0004	VERSION	02	
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# SPECIFICATION

**SPEC NO. : SP03AF2450E-0630**

**PART NO. : 03P15E03000010T**

**PRODUCT NAME : EDAH0004**

<b>DESCRIPTION</b>	<b>: Embedded Dual-Band Antenna</b> <b>RoHS</b>
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## REVISION STATUS

[illegible]

Prepared By	Checked By	Approved By
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## CIROCOMM TECHNOLOGY .

**PART NUMBER : 03P15E03000010T**

### 1 SCOPE

CIROCOMM's customized **Embedded Dual-Band Antenna** covers the 2.4G 、5GHz.

### 2 Name of the product

This product is named “**Embedded Dual-Band Antenna**” .

### 3 Electrical characteristics

#### 3-1 Electrical characteristics of antenna

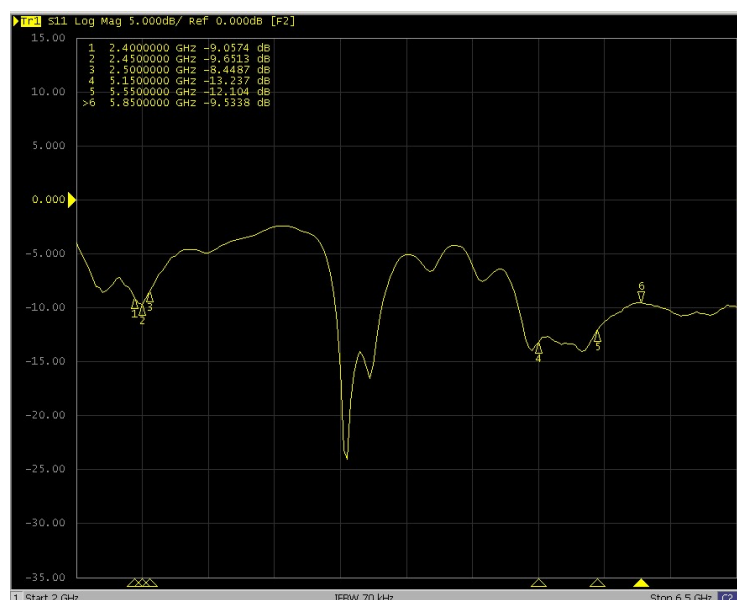
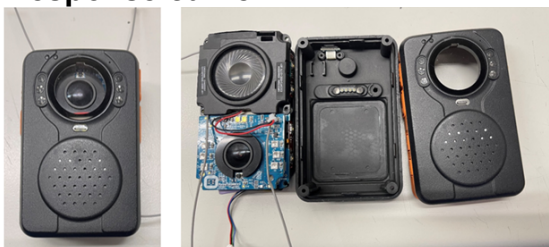
The antenna has the electrical characteristics given in Table 1 under the *cirocomm* standard installation conditions shown in the figure of Evaluation Board.

**Table 1**

No	Parameter	Specification
1	Working Frequency	2400~2500MHz 5150~5850MHz
2	Dimension (Antenna FPC)	19.75x15.3x0.15 mm
3	Polarization	Linear
4	Operating Temperature	- 30°C to +80°C

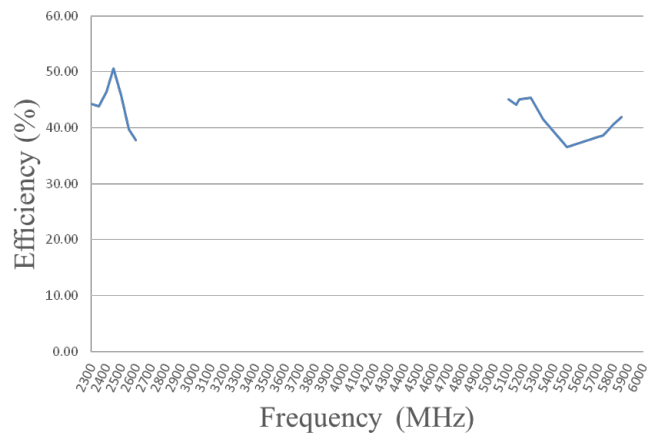
\* Actual performance will depend on customer device environment.

#### 3-2 Environment & S11 Response curve

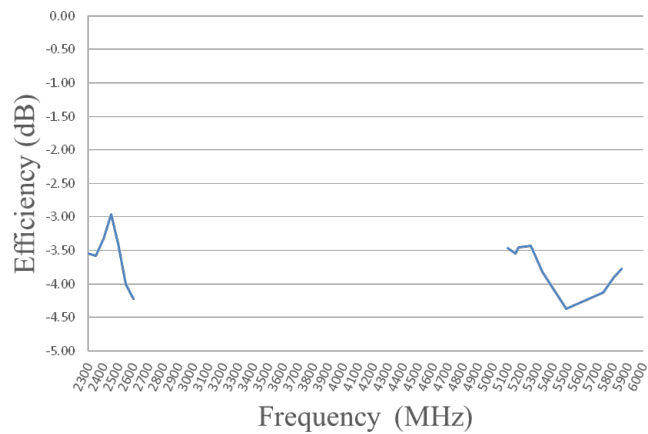


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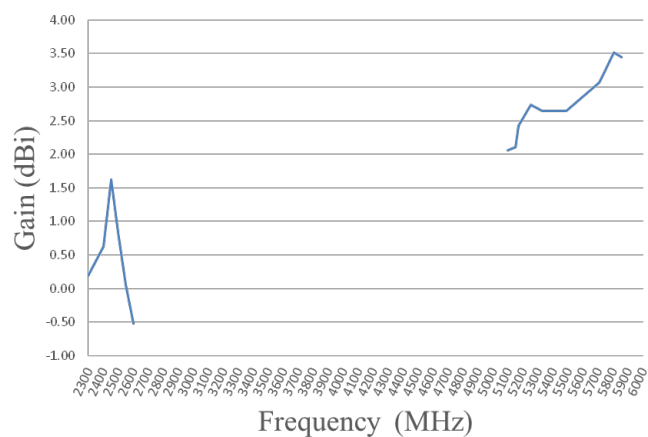
Efficiency



Average Gain



Peak Gain



Frequency (MHz)	2400	2450	2500	5150	5850
Efficiency(%)	46.49	50.57	45.75	44.18	41.89
Average Gain(dB)	-3.33	-2.96	-3.40	-3.55	-3.78
Peak Gain(dBi)	0.62	1.63	0.83	2.11	3.45

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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 -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 Return Loss are confirmed in the picking out examination.

## 7 Warranty

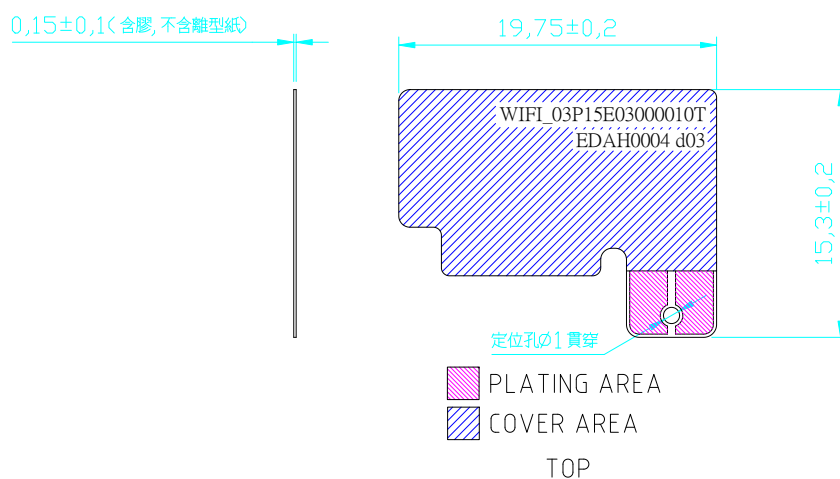
If any defect occurs form the product during proper use within a year after delivery, it will be repaired or replaced free of charge.

## 8 Other

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

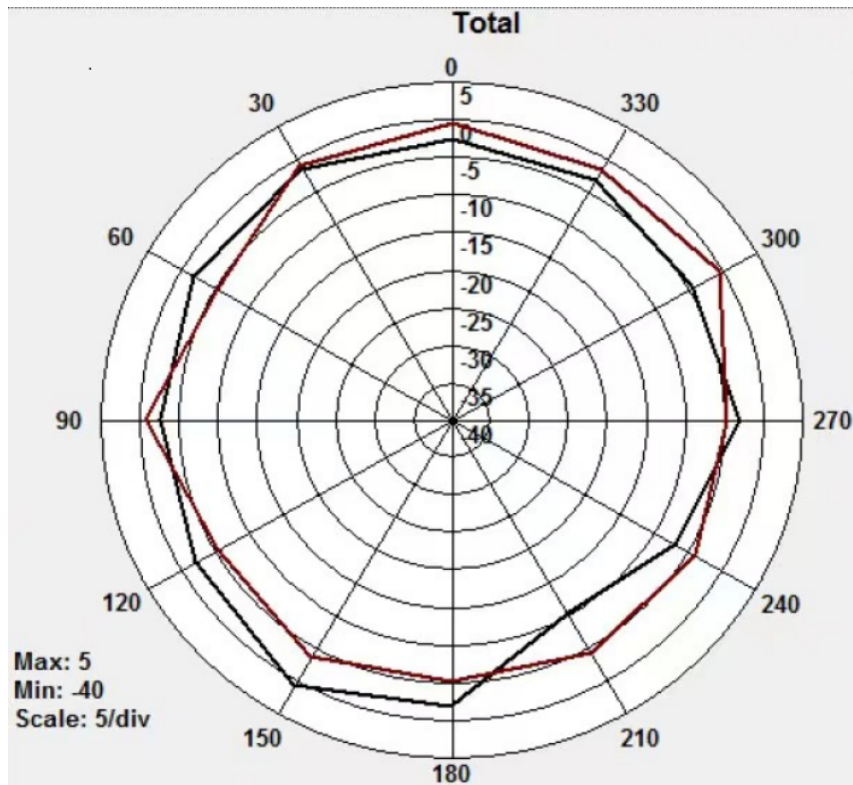
## 9 Drawings

### ANTENNA



Unit: mm

2450MHz  
Peak Gain(1.63dBi)



5150MHz  
Peak Gain(2.11dBi)

