

SPEC NO.	SP03AJ13568-0040	ISSUED DATE	2026.03.12	PUBLISHED BY
PRODUCT NAME	FSAXAI00	VERSION	d03	太盟光電科技股份有限公司 CIROCOMM TECHNOLOGY CORP. 研發 2025.03.12 試作
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SPECIFICATION

SPEC NO.	:	SP03AJ13568-0040
PART NO.	:	03C0VH030E0010T
PRODUCT NAME	:	FSAXAI00
DESCRIPTION	:	FR4 Single-Band Antenna RoHS 2.0 Compliant Product
Manufacturer	:	CIROCOMM No. 37, Gongye S. Rd., Guantian Dist., Tainan City 720006, Taiwan (R.O.C.)

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
d01	2025.12.19	Whole	New Issued.	翁秀惠	馬得淞	張敦信、吳佳宗
d02	2026.03.11	P1	Add Manufacturer	翁秀惠	馬得淞	張敦信、吳佳宗
d03	2026.03.12	P2	Add Gain/Type/Brand	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: 03C0VH030E0010T

1 SCOPE

Cirocomm's customized **FR4 Single-Band Antenna** covers the 13.56MHz.

2 Name of the product

This product is named "FSAXAI00".

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	13.56MHz
2	Dimension (PCB+Adhesive+Ferrite sheet)	60x14.5x1.26mm
3	Antenna Gain	N/A
4	Type	Loop Antenna
5	Brand	CIROCOMM
6	Polarization	Linear
7	Operating Temperature	-40~+85°C

*** Actual value will depend on customer device.**

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



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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.

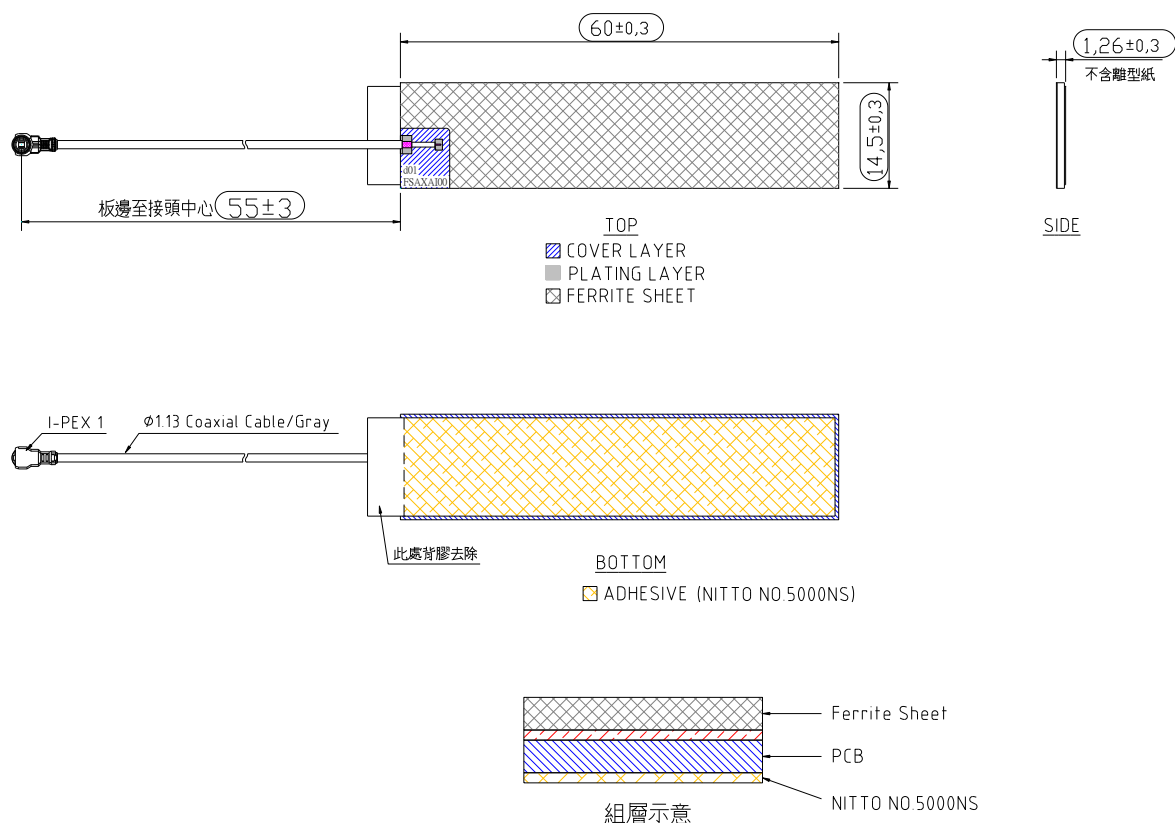
7 Warranty

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.

9 Drawings (Unit: mm)

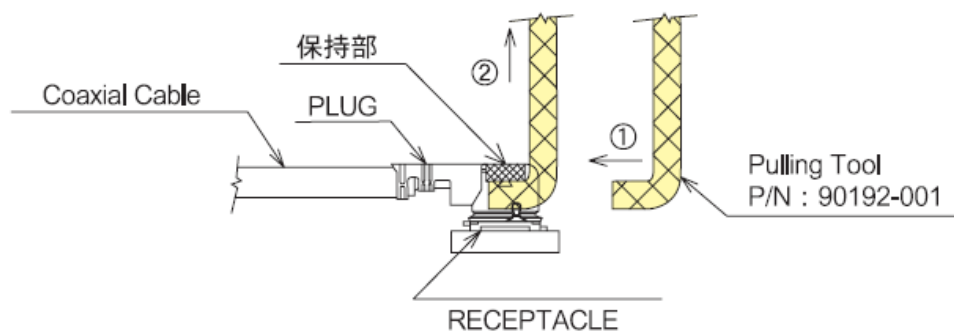


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10 Plugs Usage Precautions

10-1 Mating / unmating

- (1) To disconnect connectors, insert the end portion of I-PEX under the connector flanges and pull off vertically, in the direction of the connector mating axis.
- (2) To mate the connectors, the mating axes of both connectors must be aligned and the connectors can be mated. The "click" will confirm fully mated connection. Do not attempt to insert on an extreme angle.



10-2 Pull forces on the cable after connectors are mated

After the connectors are mating, do not apply a load to the cable in excess of the values indicated in the diagram below.

