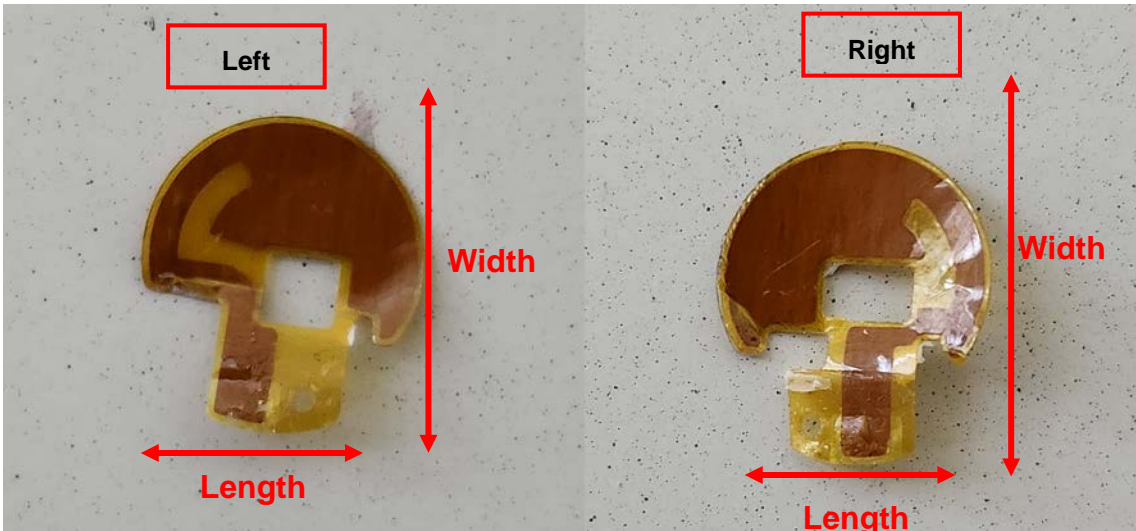


# Antenna Information

Item	Contents	
Antenna Type	FPBC Antenna	
Antenna peak gain	Right	-1.61 dBi
	Left	-0.26 dBi
Manufacturer / Model name	Right	AMOTECH / ATH-CKS30TW R_CH
	Left	AMOTECH / ATH-CKS30TW L_CH
Address of manufacturer	380, Namdongseo-ro, Namdong-gu, Incheon, Republic of Korea 21629	
Test Laboratory	AMOTECH Co., Ltd.	
Right Antenna Length	0.8 cm	
Right Antenna Width	1.2 cm	
Left Antenna Length	0.8 cm	
Left Antenna Width	1.2 cm	



Model name: ATH-CKS30TW+

# Pre Approval Sheet

Antenna Type : FPCB

Model : ATH-CKS30TW R\_CH (Bluetooth)

Amotech P/N : AMO-FA-CR014


Customer P/N : CAF-0086-00000

	Plan	Evaluation	Decision
<b>Cresyn</b>			
Date	/	/	/




2022. 04. 26

**AMOTECH Co., Ltd.**

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	<b>FPCB TYPE ANTENNA(AMO-FA-CR014)</b>	<b>2/7</b>


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	<b>FPCB TYPE ANTENNA(AMO-FA-CR014)</b>	<b>3/7</b>

## 1. Revision history

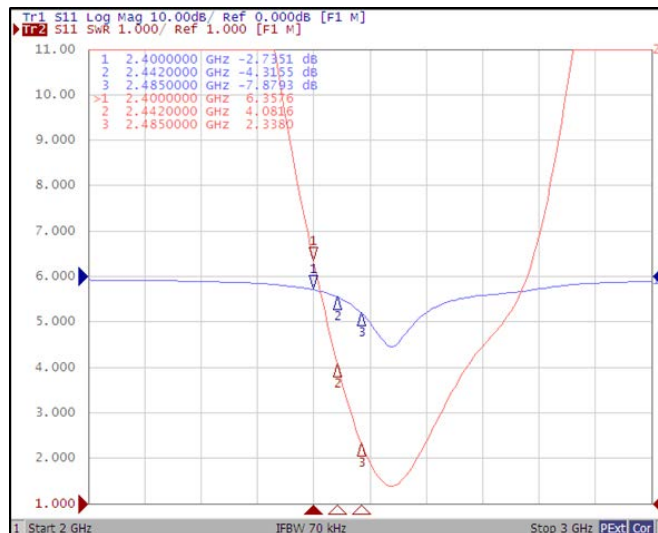
Rev No.	Date	Content	Page
0	2022.04.26	New	

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	<b>FPCB TYPE ANTENNA(AMO-FA-CR014)</b>	<b>4/7</b>

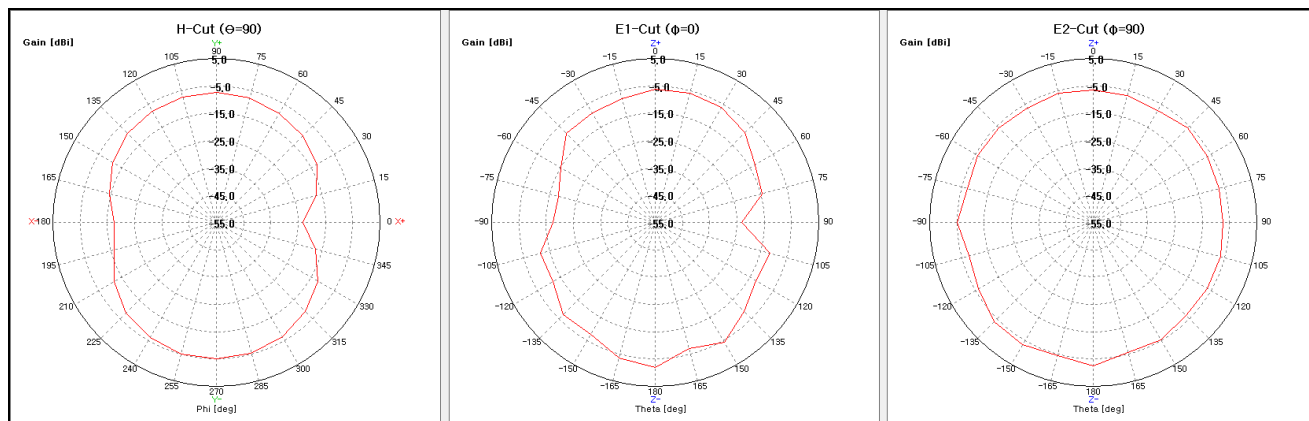
## 2. Specifications

### 2.1 Electrical specifications

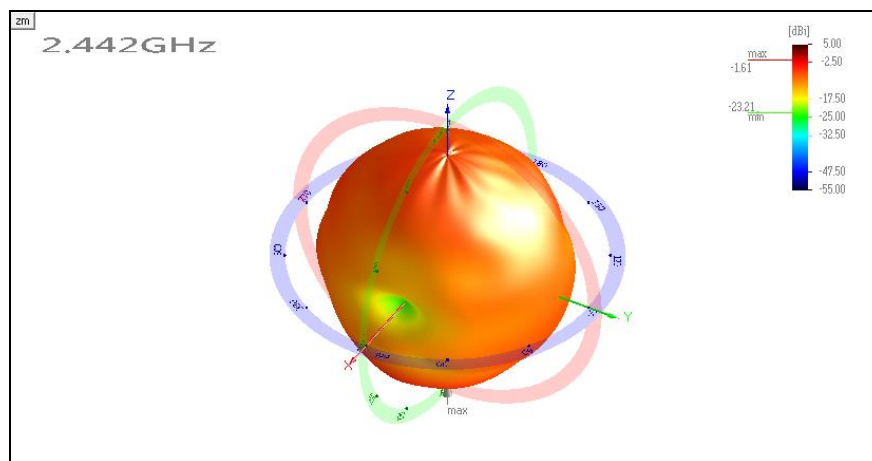
Division	Item	Specification	Remark
1	Operating Frequency	2400~2484 MHz	
2	Radiation Gain	Average [dBi] @2442 MHz	Typical -7.76
		Peak Gain [dBi] @2442 MHz	Typical -1.61
3	Radiation Pattern	Omni-directional	
4	Impedance	Nominal 50 Ω	




[VSWR = On the SET]



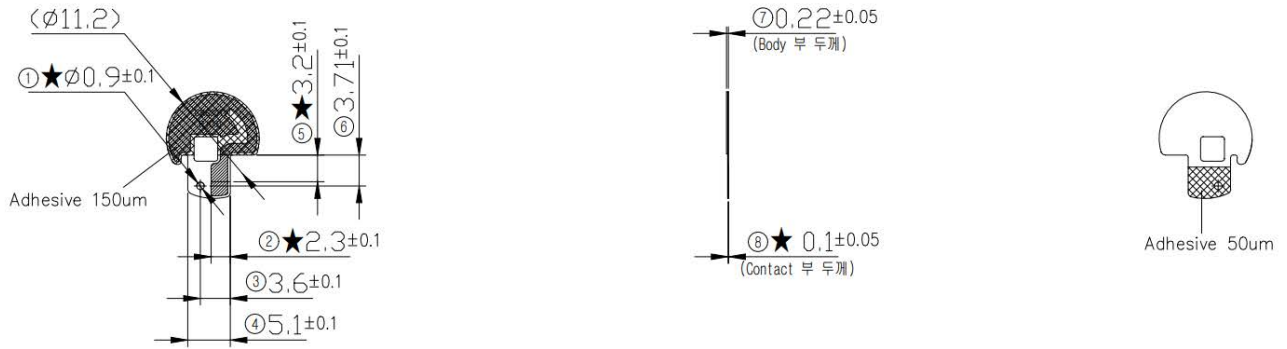
[ 2D Radiation pattern : On the set ]



[ 3D Radiation pattern : On the set ]

	<b>Pre Approval Sheet</b>	<b>PAGE</b>
	<b>FPCB TYPE ANTENNA(AMO-FA-CR014)</b>	<b>6/7</b>


## 2.2 Mechanical specification



※ **CTF** : ①, ②, ⑤, ⑧

## 2.3 Part No.

Part No.	AMO	<u>FA</u>	<u>CR</u>	<u>014</u>
	(1)	(2)	(3)	(4)
	<p>(1) : Amotech</p> <p>(2) : FPCB antenna</p> <p>(3) : Index of customer</p> <p>(4) : Product code</p>			

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	<b>FPCB TYPE ANTENNA(AMO-FA-CR014)</b>	<b>7/7</b>

### 3. Structure and material

#### 3.1 Material



No	Item	Material
①	Silk marking	White Ink
②	Base(CCL)	PI 1/2mil, AD 15 $\mu$ m, Cu 1/2oz (Ni/Au)
③	Coverlay	PI 1/2mil (Yellow), AD 15 $\mu$ m
④,⑦	Liner	Paper
⑤	Adhesive	KW-5150 (150 $\mu$ m)
⑥	Adhesive	3M 467MP (50 $\mu$ m)



# Pre Approval Sheet

Antenna Type : FPCB

Model : ATH-CKS30TW L\_CH (Bluetooth)

Amotech P/N : AMO-FA-CR015


Customer P/N : CAF-0085-00000

	Plan	Evaluation	Decision
<b>Cresyn</b>			
Date	/	/	/




2022. 04. 26

**AMOTECH Co., Ltd.**

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2.1 Electrical specifications		
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3.1 Material		

	<b>Pre Approval Sheet</b>	<b>PAGE</b>
	<b>FPCB TYPE ANTENNA(AMO-FA-CR015)</b>	<b>3/7</b>

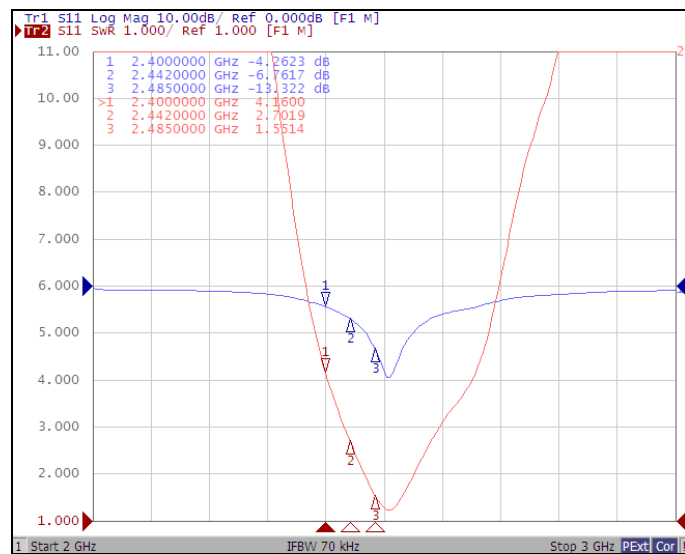
## 1. Revision history

Rev No.	Date	Content	Page
0	2022.04.26	New	

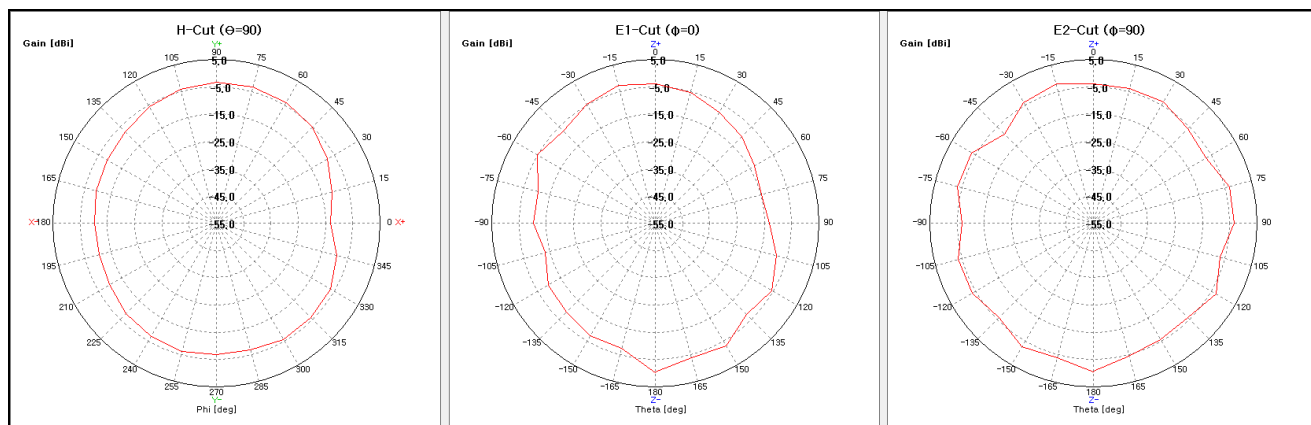
## 2. Specifications

### 2.1 Electrical specifications

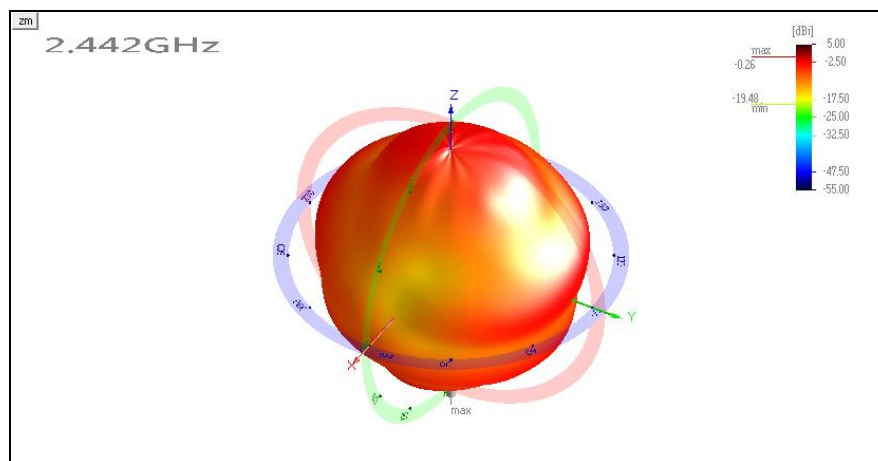
Division	Item	Specification	Remark
1	Operating Frequency	2400~2484 MHz	
2	Radiation Gain	Average [dBi] @2442 MHz	Typical -5.98
		Peak Gain [dBi] @2442 MHz	Typical -0.26
3	Radiation Pattern	Omni-directional	
4	Impedance	Nominal 50 Ω	




[VSWR = On the SET]



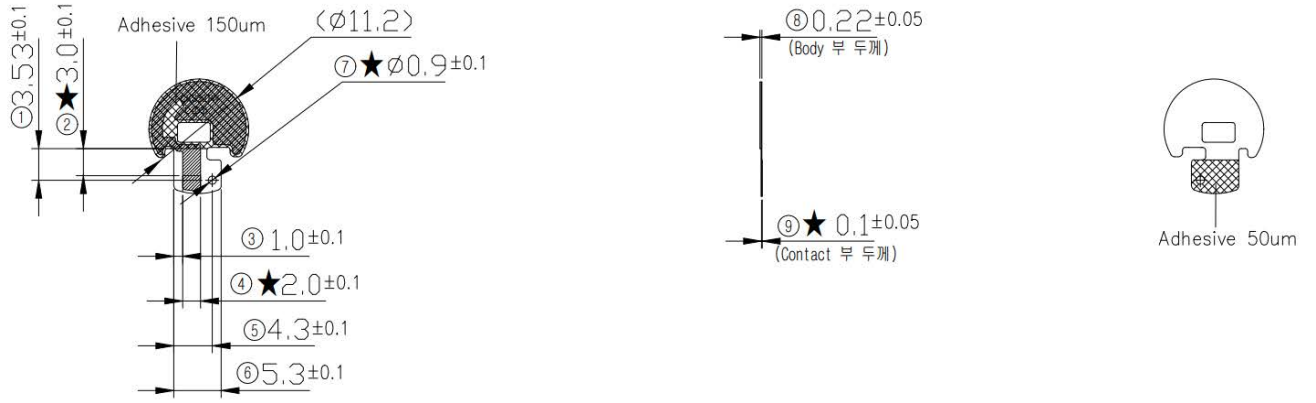
[ 2D Radiation pattern : On the set ]



[ 3D Radiation pattern : On the set ]

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	<b>FPCB TYPE ANTENNA(AMO-FA-CR015)</b>	<b>6/7</b>


### 2.2 Mechanical specification



※ **CTF** : ②, ④, ⑦, ⑨

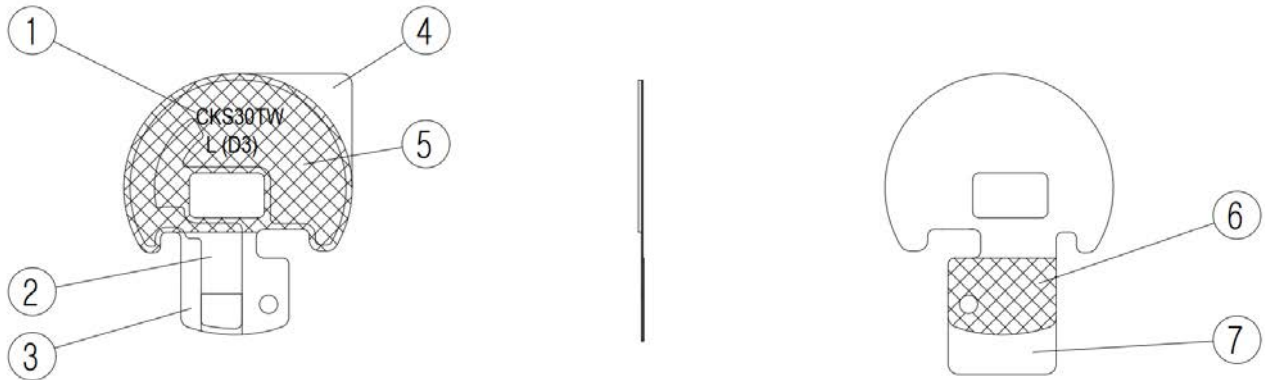
### 2.3 Part No.

Part No.	AMO	<u>FA</u>	<u>CR</u>	<u>015</u>
	(1)	(2)	(3)	(4)
	(1) : Amotech (2) : FPCB antenna (3) : Index of customer (4) : Product code			

	<b>Pre Approval Sheet</b>	<b>PAGE</b>
	<b>FPCB TYPE ANTENNA(AMO-FA-CR015)</b>	<b>7/7</b>

### 3. Structure and material

#### 3.1 Material



No	Item	Material
①	Silk marking	White Ink
②	Base(CCL)	PI 1/2mil, AD 15 $\mu$ m, Cu 1/2oz (Ni/Au)
③	Coverlay	PI 1/2mil (Yellow), AD 15 $\mu$ m
④,⑦	Liner	Paper
⑤	Adhesive	KW-5150 (150 $\mu$ m)
⑥	Adhesive	3M 467MP (50 $\mu$ m)