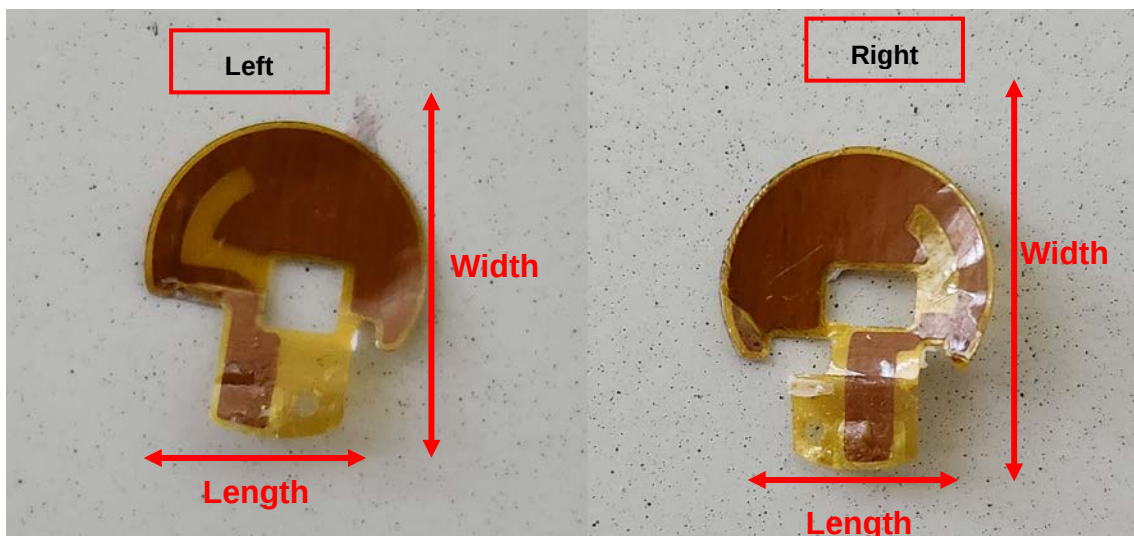


Antenna Information

Item	Contents	
Antenna Type	FPCB 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

Cresyn	Plan	Evaluation	Decision
Date	/	/	/



2022. 04. 26

AMOTECH Co., Ltd.

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1. Revision history

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0	2022.04.26	New	

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2. Specifications

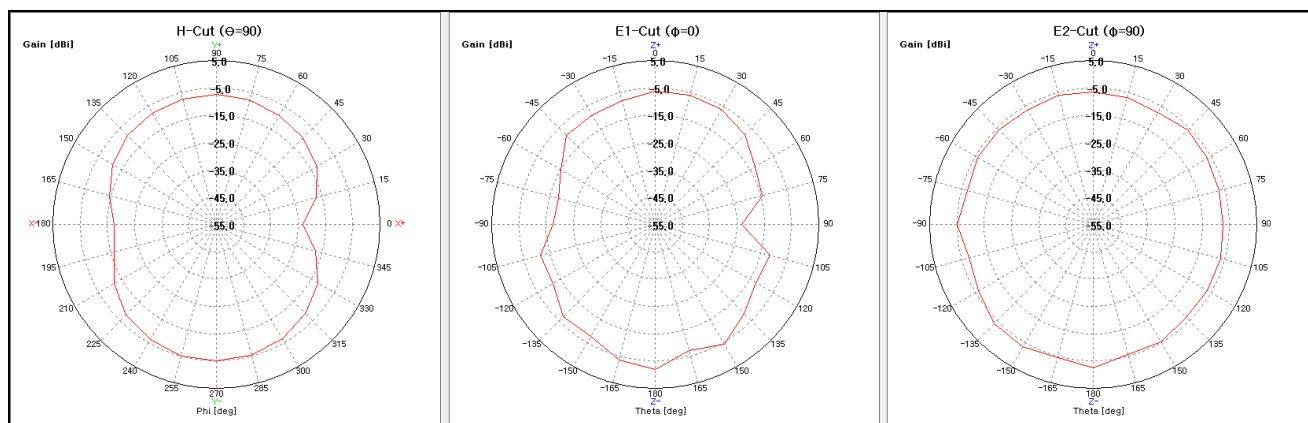
2.1 Electrical specifications

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

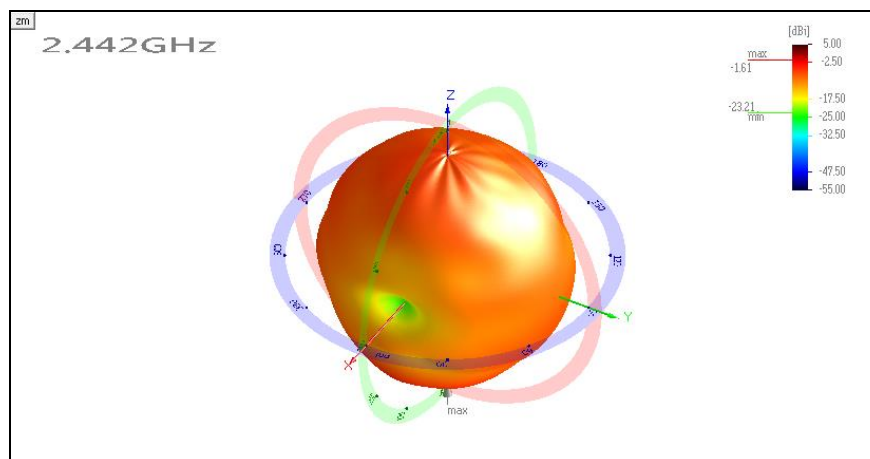


[VSWR = On the SET]

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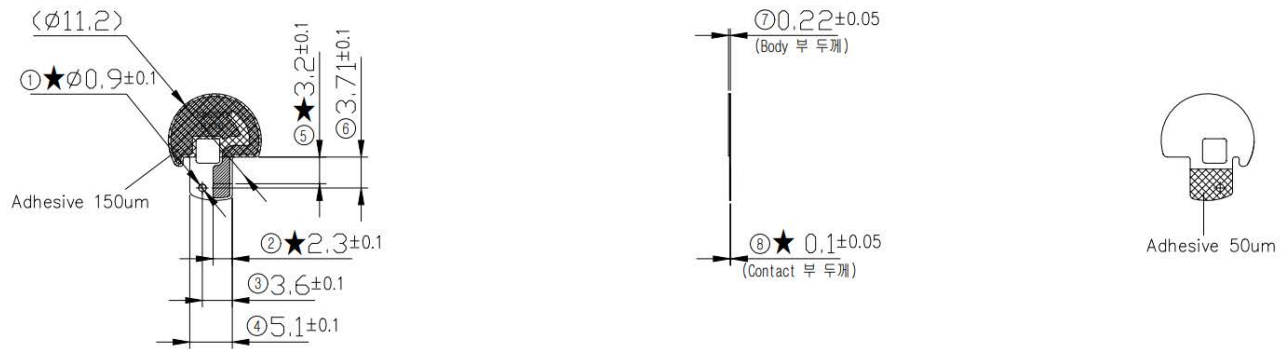
[2D Radiation pattern : On the set]



[3D Radiation pattern : On the set]

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2.2 Mechanical specification



※ **CTF** : ①, ②, ⑤, ⑧

2.3 Part No.

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

	Pre Approval Sheet	PAGE
	FPCB TYPE ANTENNA(AMO-FA-CR014)	7/7

3. Structure and material

3.1 Material



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

Cresyn	Plan	Evaluation	Decision
Date	/	/	/



2022. 04. 26

AMOTECH Co., Ltd.

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	FPCB TYPE ANTENNA(AMO-FA-CR015)	2/7

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2. Specifications	-----	4
2.1 Electrical specifications		
2.2 Mechanical specifications		
2.3 Part No		
3. Structure and material	-----	7
3.1 Material		

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

1. Revision history

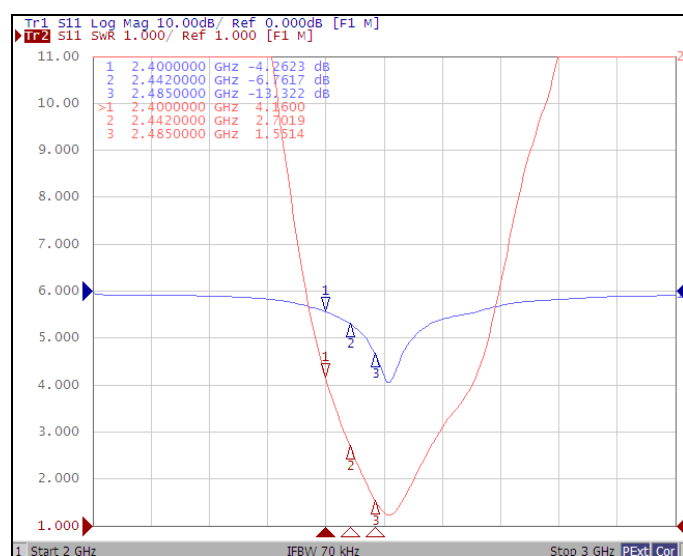
Rev No.	Date	Content	Page
0	2022.04.26	New	

	Pre Approval Sheet	PAGE
	FPCB TYPE ANTENNA(AMO-FA-CR015)	4/7

2. Specifications

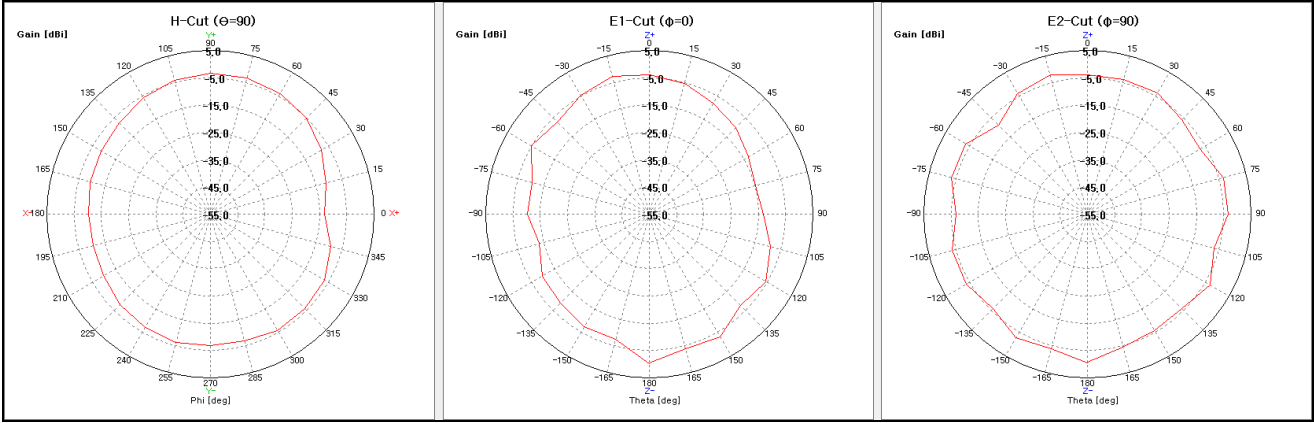
2.1 Electrical specifications

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

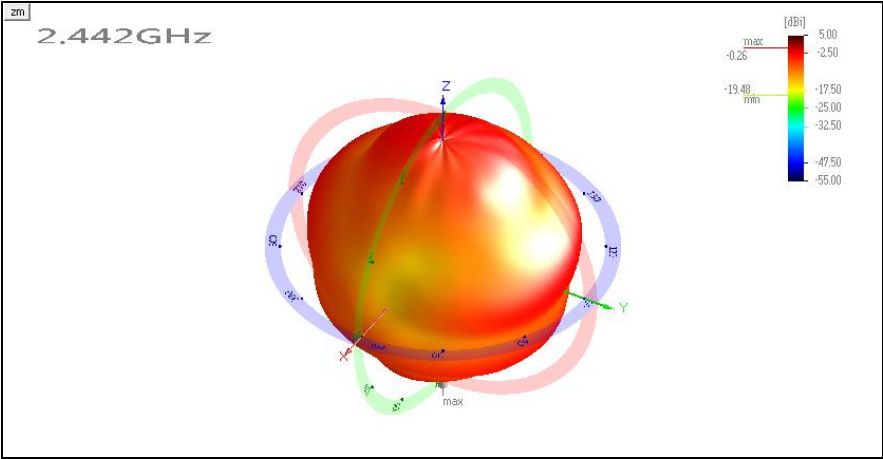


[VSWR = On the SET]

	Pre Approval Sheet	PAGE
	FPCB TYPE ANTENNA(AMO-FA-CR015)	5/7



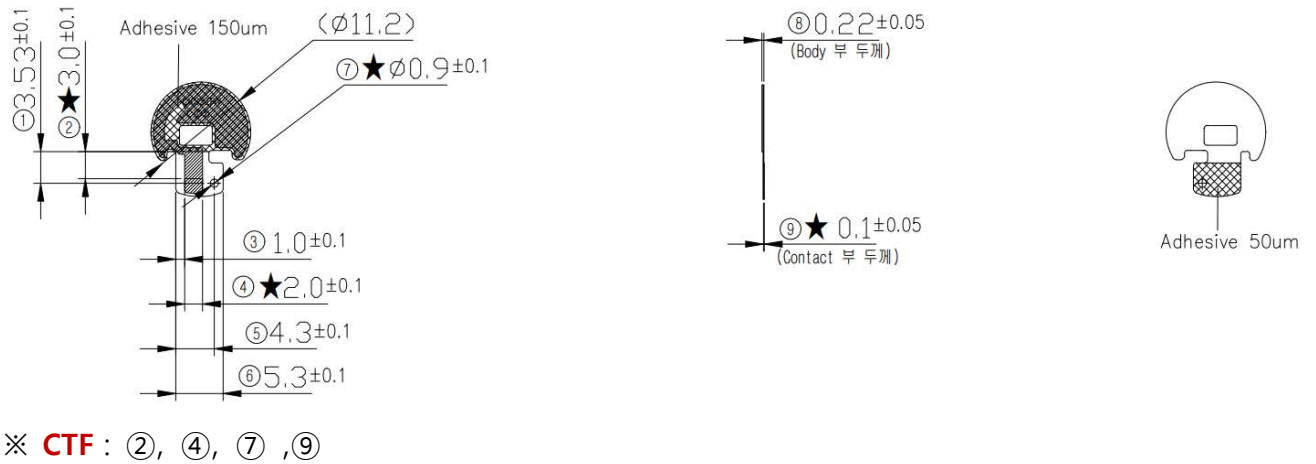
[2D Radiation pattern : On the set]



[3D Radiation pattern : On the set]

	Pre Approval Sheet	PAGE
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2.2 Mechanical specification

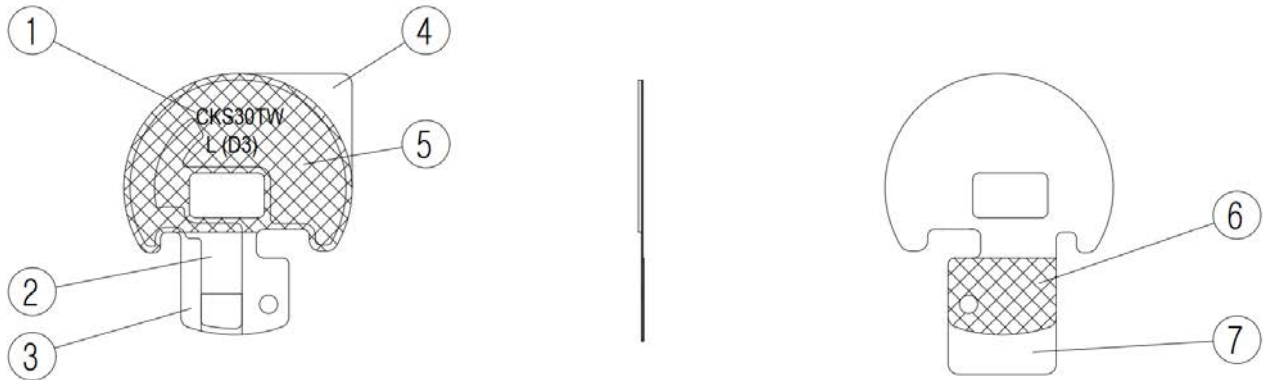


2.3 Part No.

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

3. Structure and material

3.1 Material



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