

Dreamus Corp.

APPROVAL SHEET

CA1000T			
NO	MODEL	FREQUENCY	
1	HWI-ABG-CA1000T	WIFI 2.4GHz/BT	2400 ~ 2484 MHz
		WIFI 5GHz	5170 ~ 5825 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					
22/09/15		22/09/15			



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HISTORY SHEET

ITEM	FPCB ANTENNA	Developed by	Kyoung-Min Lee	
Part Name	HWI-ABG-CA1000T	Director		
Rev. No.	Date	Description		Etc.
0	2022-09-15	Initial Version		

ANTENNA SPECIFICATION

1. MODEL: HWI-ABG-CA1000T

2. APPLICATION:

This specification is provided for WIFI 2.4, 5GHz/BT ANTENNA.

3 ANTENNA used condition

■Portable ■Fixing ■Movement ■Out-door ■In-door ■Etc()

4. ANTENNA Drawing

#3. Attached : Drawing paper

5. Electrical specification and performance

Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS		REMARK
5. 1	FREQUENCY RANGE	WIFI 2.4GHz /BT	2400 ~ 2484 MHz	
		WIFI 5GHz	5170 ~ 5825 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	WIFI 2.4GHz /BT	Less than 1 : 1.73	#1. Attached
		WIFI 5GHz	Less than 1 : 3.89	
5. 4	PEAK GAIN	WIFI 2.4GHz /BT	-4.96 dBi	#2. Attached
		WIFI 5GHz	-2.85 dBi	
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
2. 6. 1	FPCB Size [W X H X T]	47.70 X 13.40 X 0.15 (mm)	
2. 6. 2	CABLE	MHF-1 1.13Ø 69.5mm	

7. SINUSOIDAL VIBRATION

Vibration Frequencies : 5– 55 Hz (1 cycle)

Sweep Rate : 1 cycle/min

Maximum Amplitude : A – 1 mm

Maximum Acceleration: 2 g

Measuring method

Antenna is combined in the test equipment.

The vibration is done X and Y direction (left, right, up and down) according to below image.

It continued for 2 hours each direction.

8. OPERATING TEMPERATURE

Temperature : – 40℃ / +70℃

Demands : Set Antenna and Cable for 72 hours each temperature.

No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

The antenna shall satisfy the electrical data

9. HUMIDITY

Condition : 95% / +70℃

Measuring method

Antenna is placed in climatic chamber for 72 hours.

Antenna is taken out from the chamber and measured

after another 24 hours in room temperature

Demands : No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

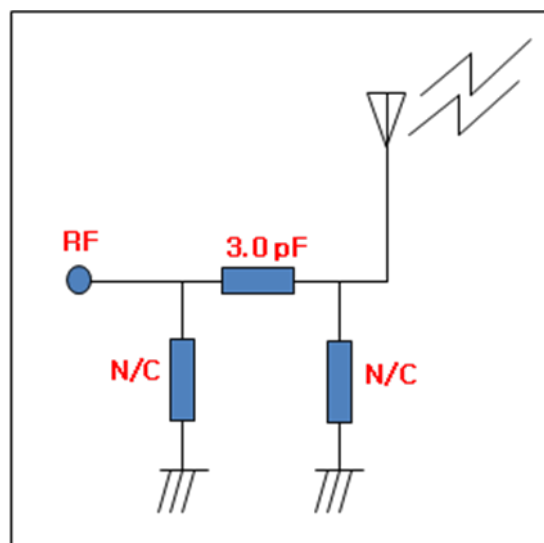
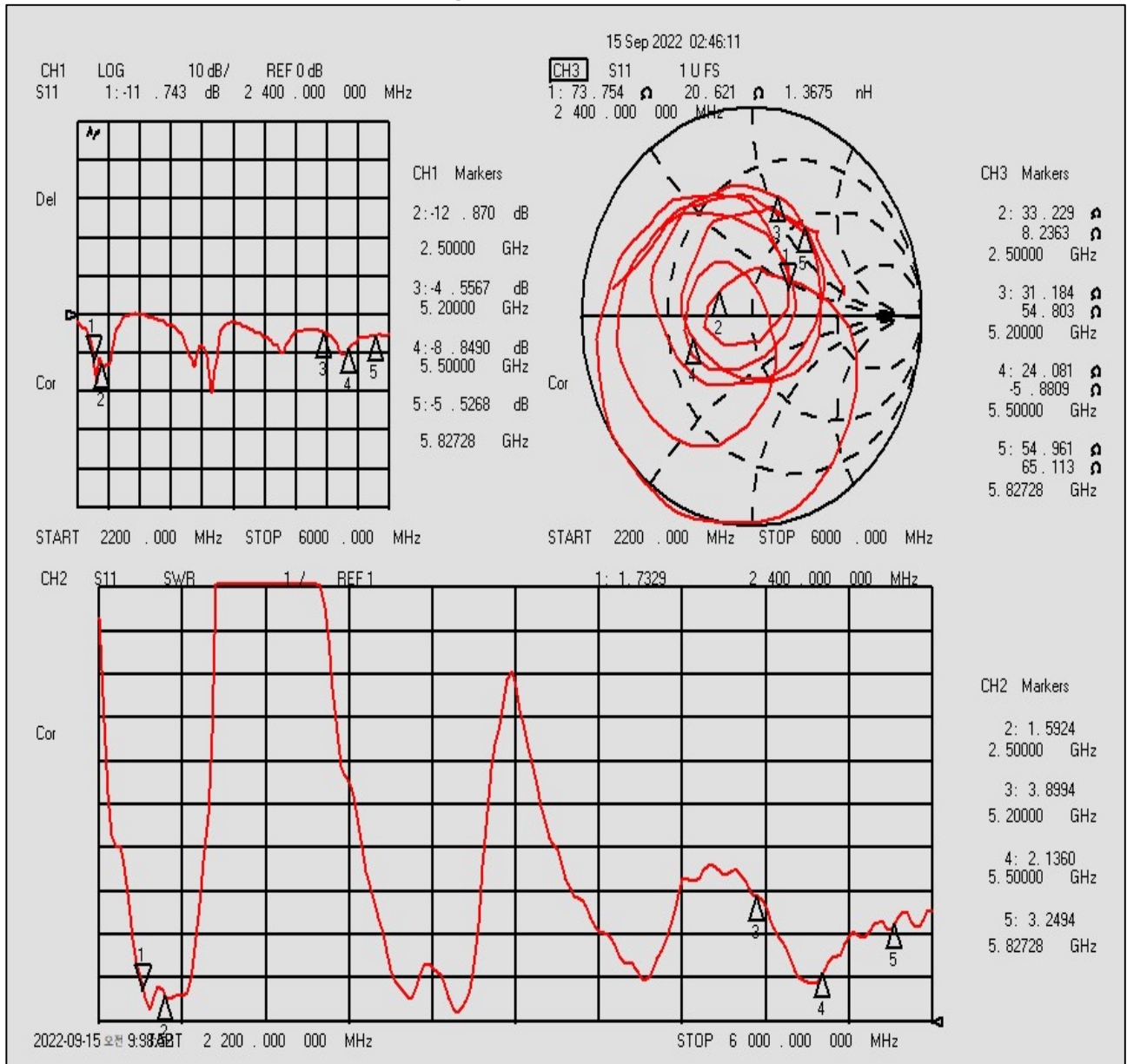
The antenna shall satisfy the electrical data.

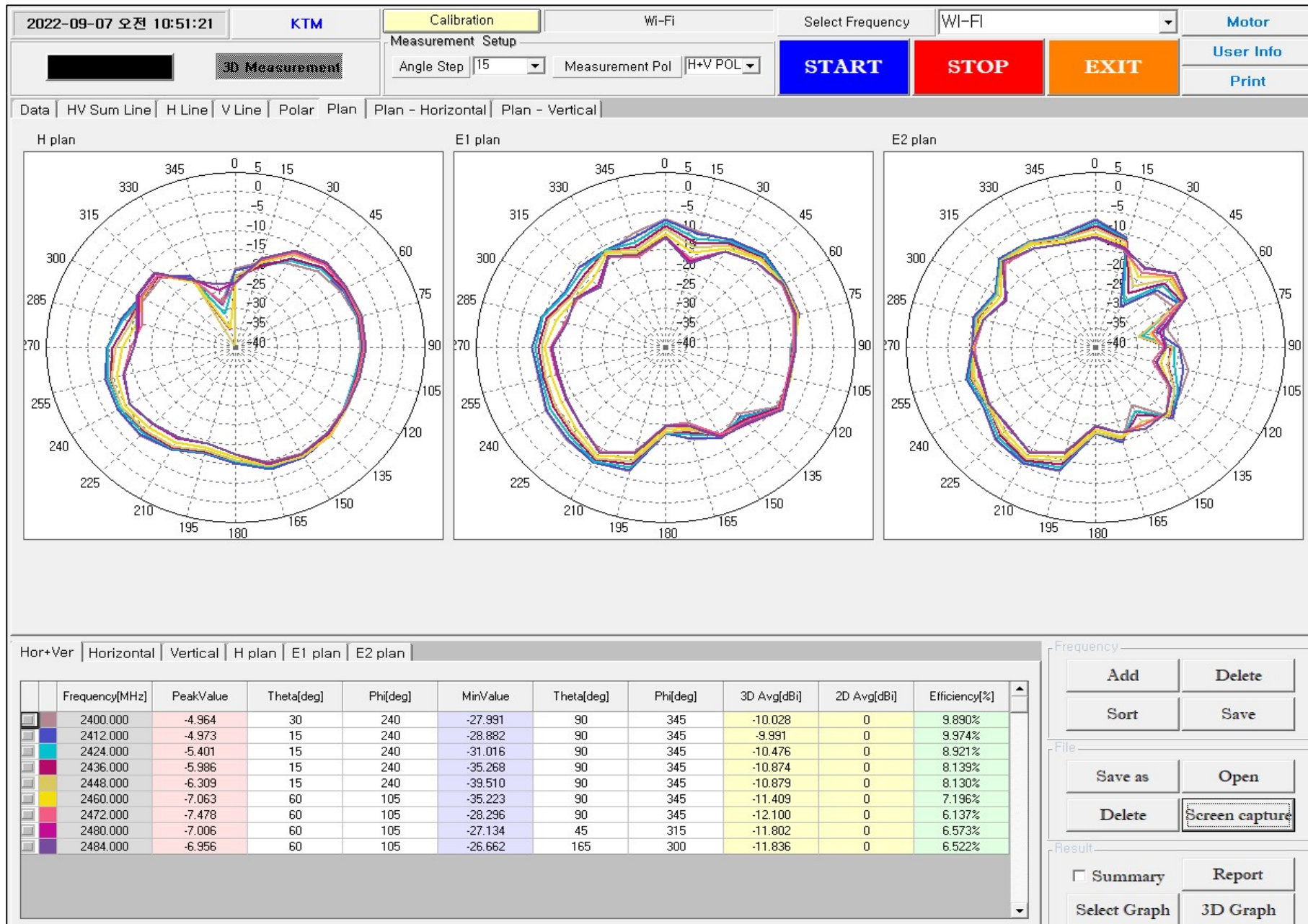
10. TEST and Q/C

This specification is according to fixed demands and suitable Hanwool technology Q/C provision.

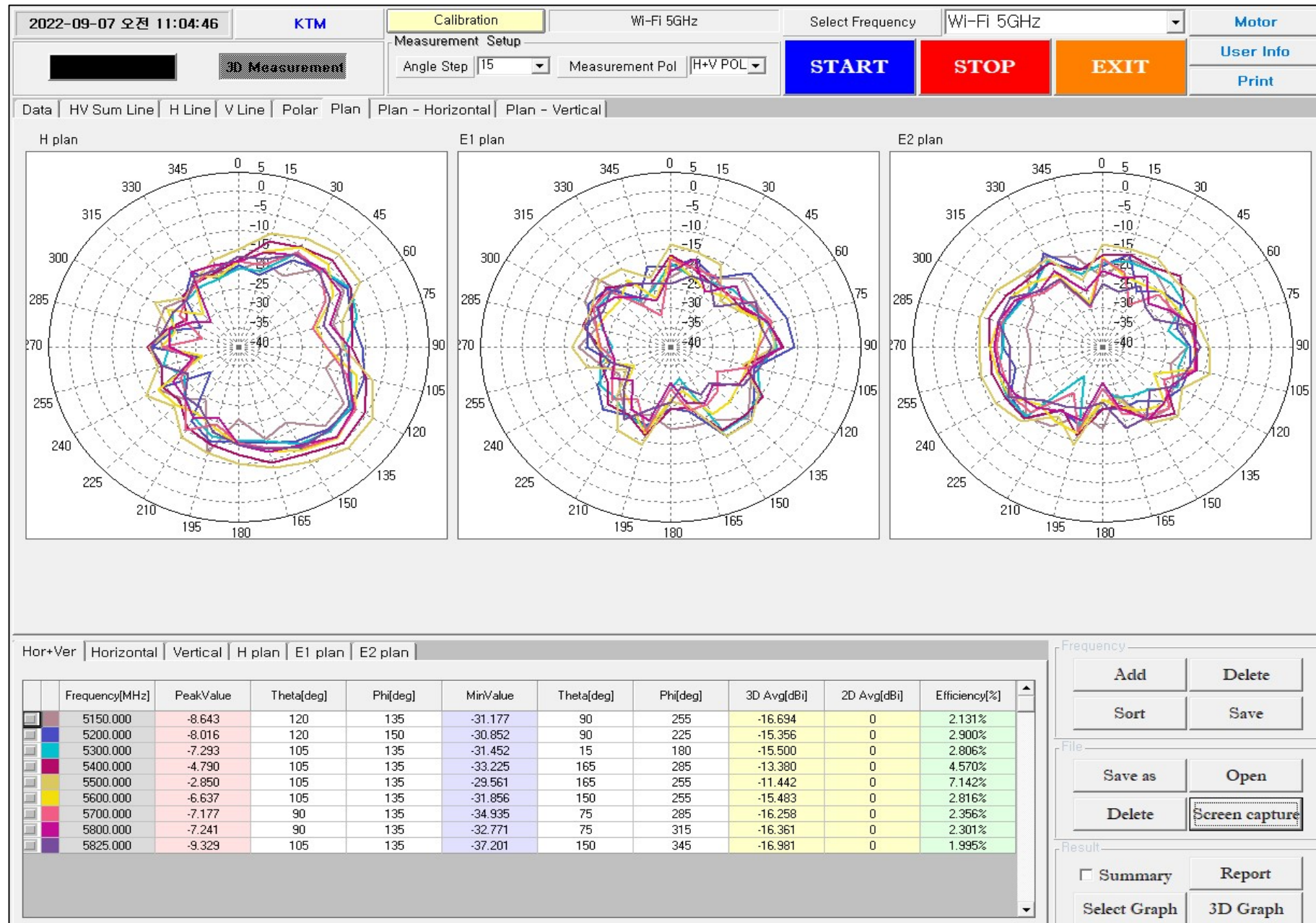
But it is possible to skip No. 7~9 demands, after consultation with buyer.

- #1. Attached : VSWR + Matching Value





- #2. Attached : RADIATION PATTERN(GAIN)_WIFI 2.4GHz/BT



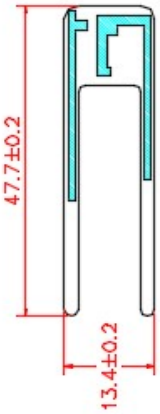
- #3. Attached : RADIATION PATTERN(GAIN)_ WIFI 5GHz

- #3. Drawing paper

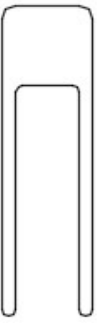
No		Revision Note		Checked		Date	
A							

Pattern :

TOP

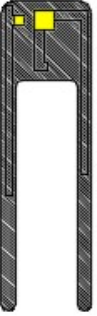


BOTTOM

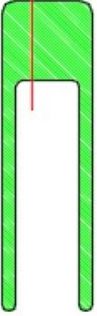


INK : Black INK

TOP



BOTTOM



Silk print : White Color

TOP



BOTTOM



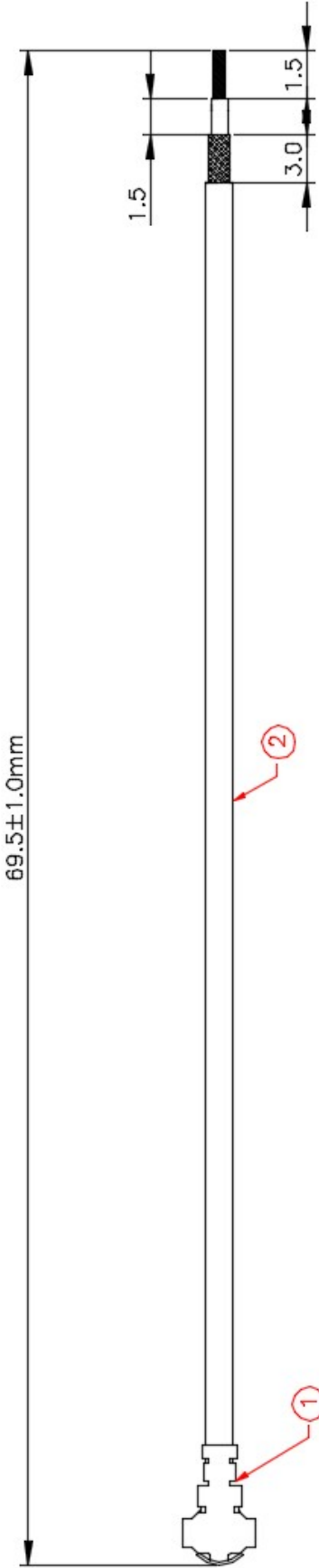
HanwoolTech (드림어스)
HWI-ABG-CA1000T (V.0)

1.  표시는 패턴 Area임.
2.  표시는 OSP Area임.
3.  표시는 무광 INK 영역임.
4.  표시는 3M 467 영역임.
5. 1/2 OZ, 1 MIL 적용.

1		Part Name		Material Description		1		Finish	
No		Title		PCB		Model		Q'ty	
Scale	1/1	Unit	mm	Drawn by	J.O.LIM	Checked by	H,CHOI	Approved by	File Name
Decimal	.X ±0.1	Angle	N/A	220915-50					드림어스
.XX ±0.05									

Hanwool Technology

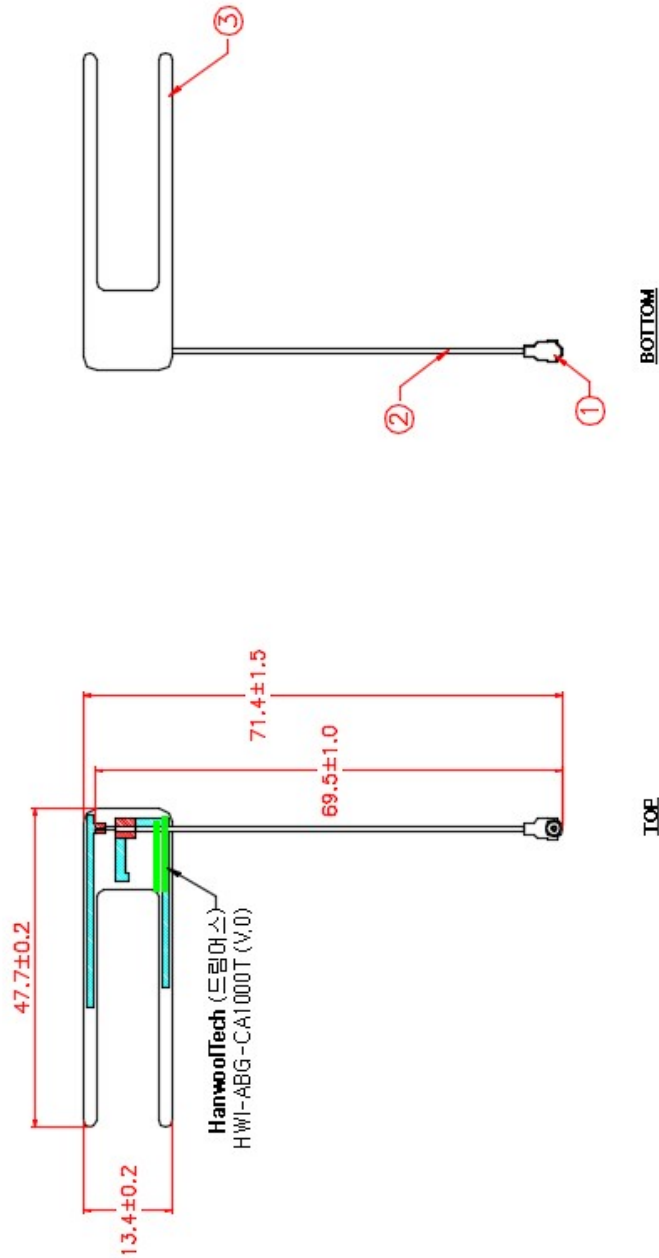
No	Revision Note		Checked	Date
△				



2	CABLE		IPEX ϕ 1.13	1	GRAY
1	CONNECTOR		MHF 1	1	
No	Part Name		Material Description	Q'ty	Finish
Scale	Unit	Title	CABLE	Model	HWI-ABG-CA1000T
1/1	mm	Drawn by	Checked by	Approved by	File Name
Decimal	Angle	J.O.LIM		H,CHOI	드림머스
.X $\pm$ 0.1					
.XX $\pm$ 0.05	N/A	220915-51			

Hanwool Technology

No	Revision Note		Checked	Date
△				



3	F-PCB			1	
2	CABLE	IPEX $\phi 1.13$, 69.5mm		1	GRAY
1	CONNECTOR	MHF 1		1	
No	Part Name	Material Description		Q'ty	Finish
Scale	Unit	ASSY		HWI-ABG-CA1000T	
1/1	mm	Drawn by	Checked by	Approved by	File Name
Decimal	Angle	J.O.LIM		H.CHOI	
.X ± 0.1	N/A	220915-52			
.XX ± 0.05					
Hanwool Technology					