APPROVAL SHEET

HB1				
NO	MODEL FREQUENCY			
1	HWI-BT-HB1	BLUET00TH	2400 ~ 2483.5 MHz	

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
OU		3400			
23/04/05		23/04/05			



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HISTORY SHEET

ITEM	FPCB AI	NTENNA	Developed by	Kyoung-Min Lee	QU
Part Name	HWI-BT-HB1		Director		
Rev. No.	Date		Description		Etc.
0	2023-04-05	Initial Version			

ANTENNA SPECIFICATION

1. MODEL: HWI-BT-HB1

2. APPLICATION:

This specification is provided for BLUETOOTH 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	BLUETOOTH	2400 ~ 2483.5 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	BLUETOOTH	Less than 1 : 2.15	#1. Attached
5.4	PEAK GAIN	BLUETOOTH	−2.40 dBi	#2. Attached
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]	14.00 X 17.26 X 0.15 (mm)	

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

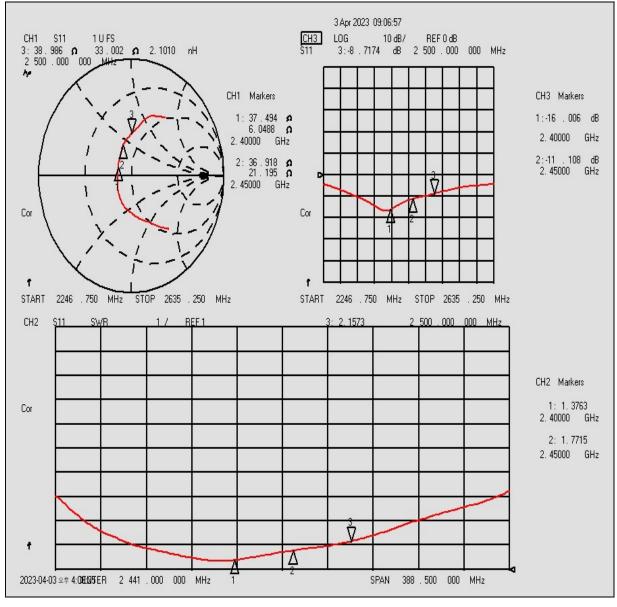
Demands : No visual and mechanical changes.

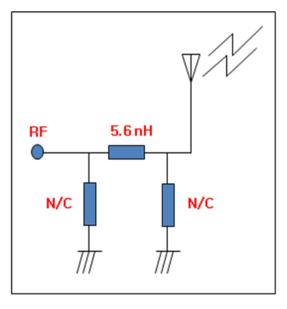
The fitting and mold will be unchanged mechanically during the test.

The antenna shall satisfy the electrical data.

10. TEST and Q/C

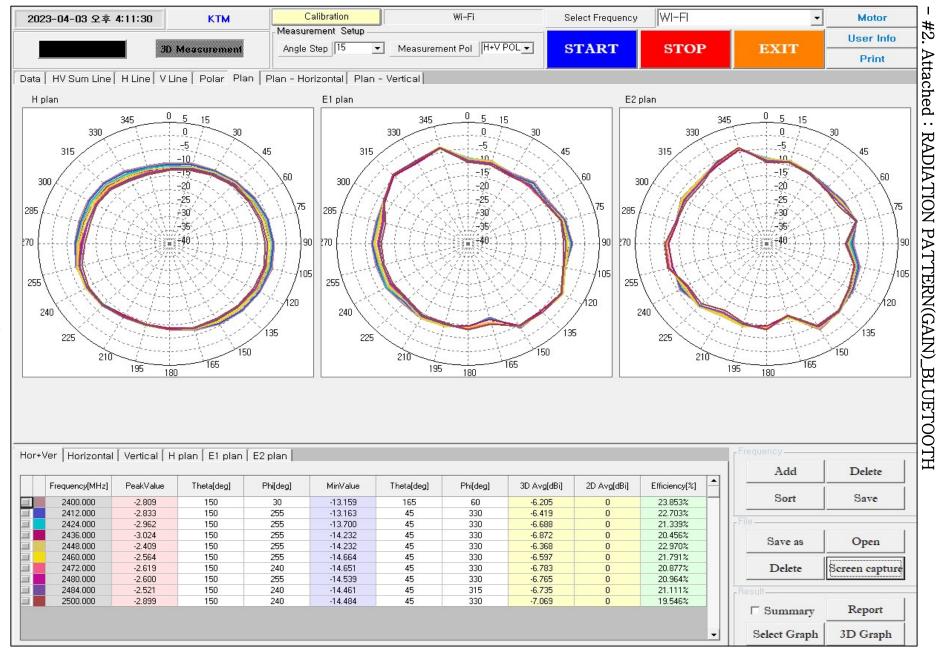
This specification is according to fixed demands and suitable Hanwool technology Q/C provision. But it is possible to skip No. 7~9 demands, after consultation with buyer.



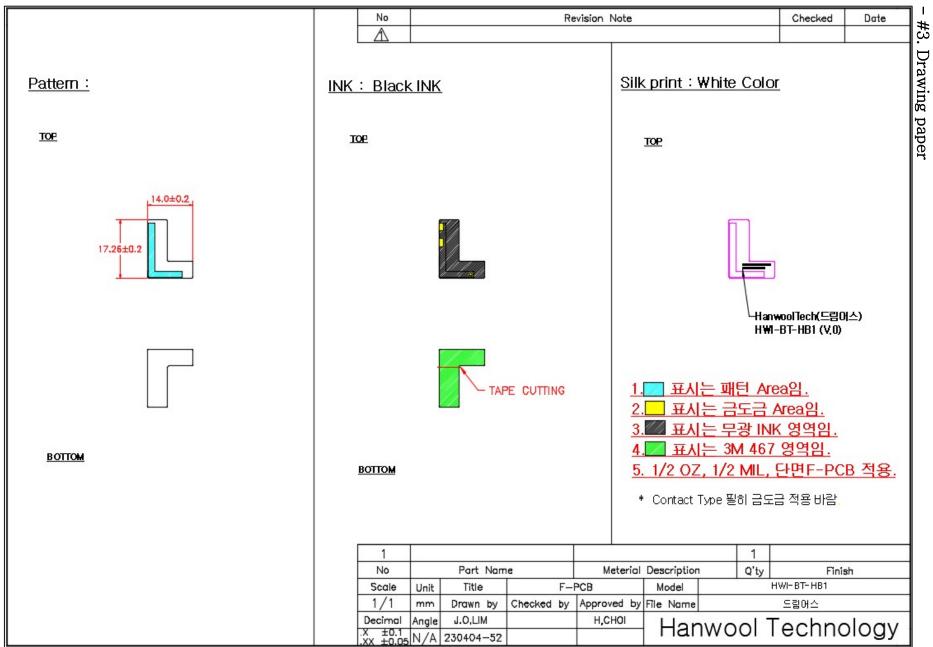


- #1. Attached : VSWR + Matching Value

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