PITTASOFT Co., Ltd.

PCB ANTENNA DATA SHEET

DR770X Box		
NO	MODEL	FREQUENCY
1	DR770X Box EB-1	420 MHz ~ 440 MHz

ANTENNA SPECIFICATION

1. MODEL: DR770X Box EB-1

2. APPLICATION:

This specification is provided for 420MHz ~ 440MHz Band 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	420MHz~440MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL	
5. 3	V. S. W. R	Less than 1: 3.5	Attached #1
5. 4	PEAK GAIN(Min)	-4.2dB	Attached #2
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL	
5. 6	POLARIZATION	VERTICAL	

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	PCB	FR-4 1.2T	

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.

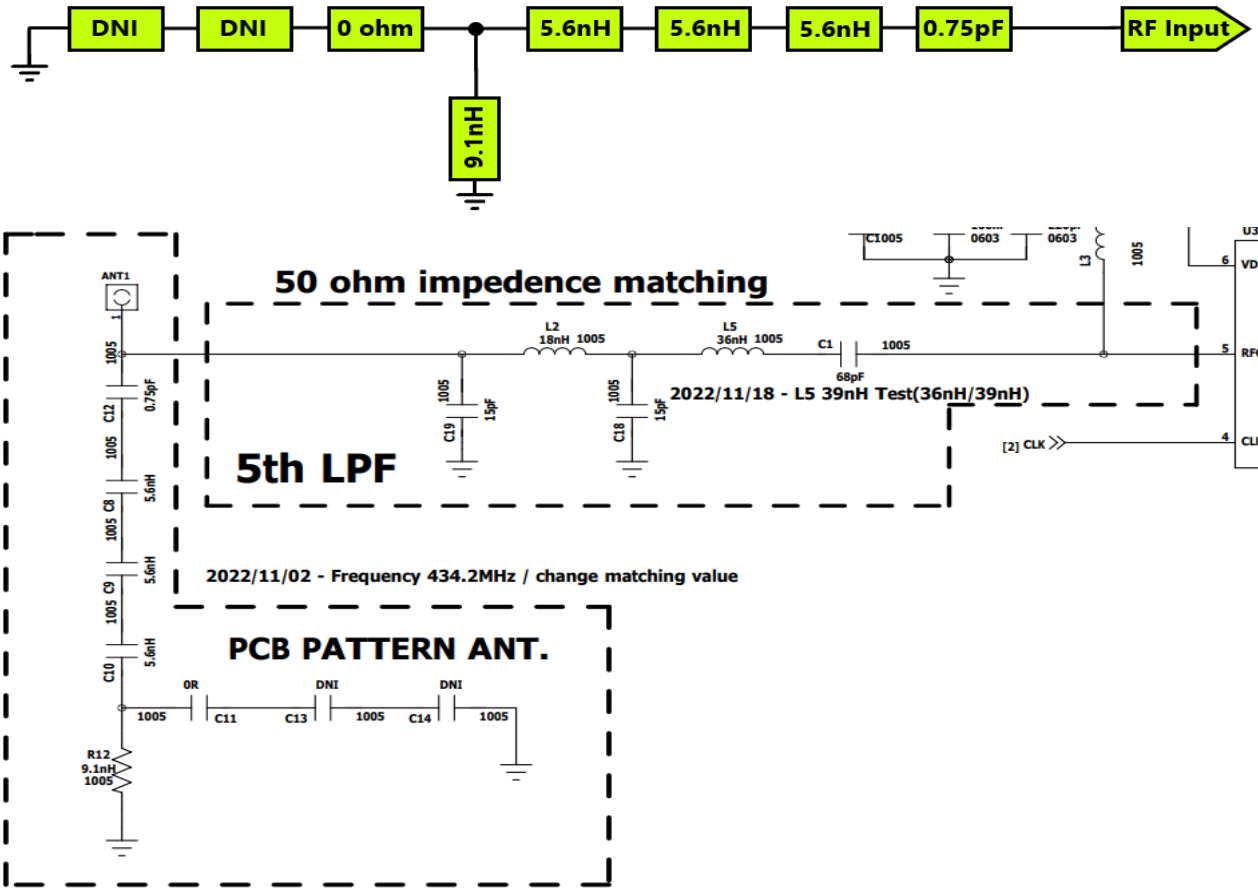
8. OPERATING TEMPERATURE

Temperature : - 30℃ / +80℃
Demands : Set Antenna and Cable for 48 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

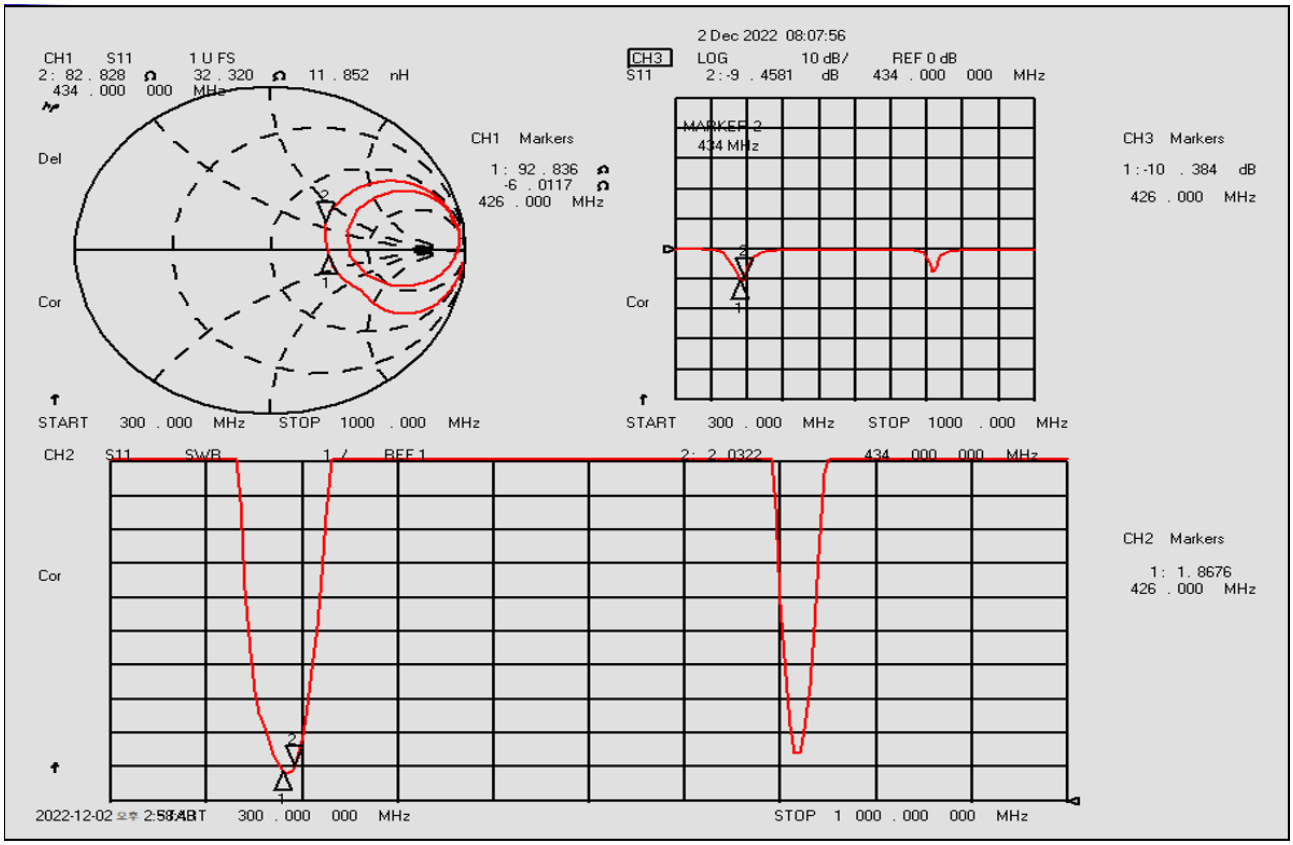
9. HUMIDITY

Condition : 90% ~ 95% / +40℃
Measuring method
Antenna is placed in climatic chamber for 48 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.

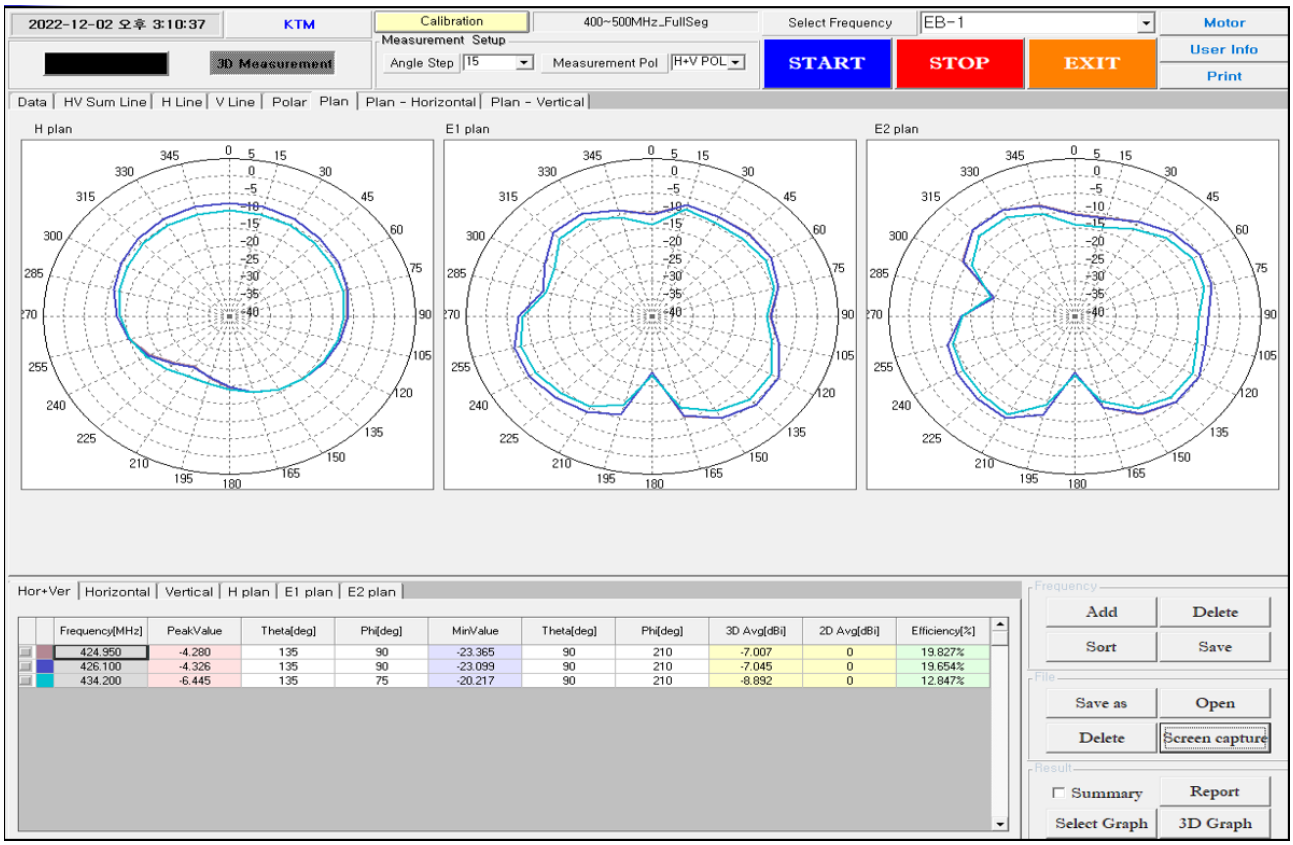
Antenna Matching Value



- #1. Attached : VSWR



- #2. Attached : RADIATION PATTERN(GAIN)



- #3. Drawing paper