



HANWOOL TECHNOLOGY CO., LTD
#1002 IT303-DONG, PUCHONTECHNOPARK III 36-1
SAMJUNG-DONG, OHJUNG-GU, KYOUNG GI-DO, KOREA
TEL. : 032) 624-2555
FAX : 032) 624-2559

G&I TECH ., LTD

APPROVAL SHEET

MAGNET ANTENNA		
NO	MODEL	FREQUENCY RANGE
1	HW-427H-M-SMAR-2M	424.7~433 MHz



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ANTENNA SPECIFICATION

1. MODEL: HW-427H-M-SMAR-2M

2. APPLICATION: This specification is provided for 424.7MHz MAGNET ANTENNA.

3 ANTENNA used condition

☐ Portable ☒ Fixing ☐ Movement ☒ Out-door ☒ In-door ☒ Etc()

4. ANTENNA Dimension

Attached Dimension

5. Electrical specification and performance

Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
5. 1	FREQUENCY RANGE	424.7~433 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL	
5. 3	V. S. W. R	LESS THAN 1:2.0	CABLE LOSS INCULED PLATE Φ 70 APPLIED
5. 4	GAIN(Max)	1.0 dBi	CABLE LOSS INCULED PLATE Φ 70 APPLIED
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL	
5. 6	POLARIZATION	VERTICAL	

6. Mechanical specification and properties

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	SLEEVE	URETHANE	BLACK-COLOR
6. 2	BASE COVER	ABS	BLACK-COLOR
6. 3	SHRINKABLE TUBE	PO	BLACK-COLOR
6. 4	RG-174 COAX CABLE		BLACK-COLOR
6. 5	SHRINKABLE TUBE	PO	BLACK-COLOR
6. 6	SMA(Male) REVERCE CONNECTOR	BRASS	GOLD-PLATING
6. 7	ANTENNA TOTAL LENGTH	179.5 $\pm$ 3.0 mm	
6. 8	CABLE TOTAL LENGTH	2M $\pm$ 30 mm	



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7. Reliability test and standards

NO	TEST	TEST Method	Decision
1	High Temp.storage	Temp.: 60℃, 48 Hour	* No transform about antenna * Satisfy the Electrical specification and performance
2	High Humidity storage	Temp.: 60℃, Humidity : 95% 72 Hour	
3	Low Temp. storage	Temp.: -40℃, 48 Hour	
4	Thermal shock test	Temp.:60℃(30min.), -40℃(30min) 24 CYCLE	
5	Salt spray	Salinity: 5%, 35℃, 48 Hour	

8. TEST and Q/C

It must comply with the requirements of the approver and the requirements of the approver and must comply with quality control regulations.

9. Packing

After packing the product according to the characteristics of the product, it is packed in an appropriate box to prevent movement.

Product packaging follows our regulations unless otherwise requested by the customer.

10. Product Warranty

This product is obligated to repair or exchange it free of charge immediately only if a defect that is deemed to be defective in design and manufacture occurs within one year of delivery.

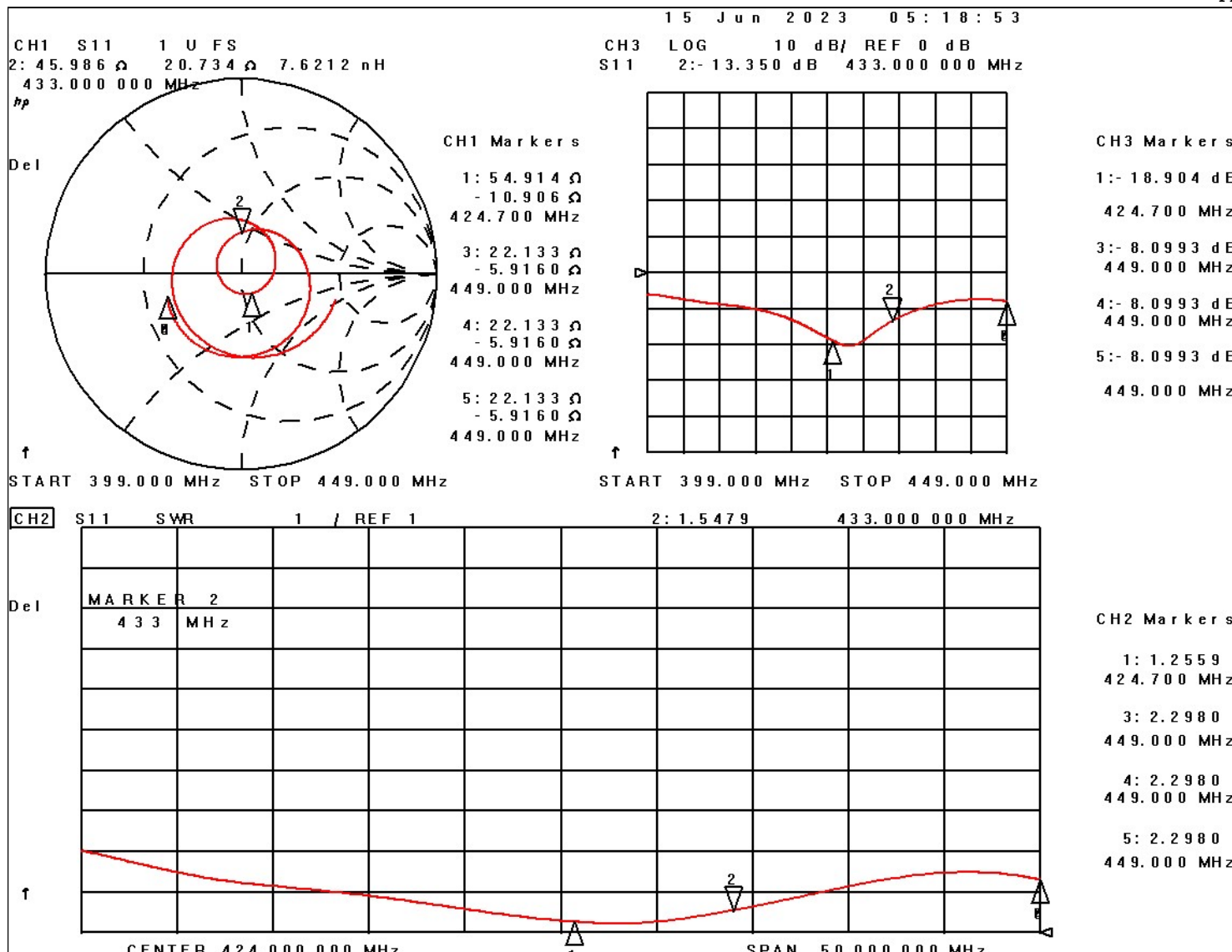


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Hanwool Technology				TOL Unless Noted	DIMENSION	mm	No	DATE	REVISION	CHECKER
				X. =±0.5	SCALE		①	201 . . .		
				X.X = ±0.1	MATERIAL		②	201 . . .		
				X.XX = ±0.05	FINISH		③	201 . . .		
				6	SMAϕ REVERSE CONNECTOR	BRASS			GOLD-PLATING	
				5	SHRINKABLE TUBE	PO			BLACK-COLOR	
				4	RG-174 COAX CABLE				BLACK-COLOR	
				3	SHRINKABLE TUBE	PO			BLACK-COLOR	
				2	BASE COVER	ABS			BLACK-COLOR	
				1	SLEEVE	URETHANE			BLACK-COLOR	
				No.	PART NAME	MATERIAL			FINISH	
TITLE	MAGNET ANTENNA ASS'Y			MODEL	HW-427H-M-SMAR-2m					
Drawn	Checked	Approval	Date	DWG No.	File Name					
Y.M,KIM		C.G,NAM	2024.03.25	240325-02	G&I TECH					



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