

APPROVAL SHEET

DIPOLE ANTENNA		
NO	MODEL	FREQUENCY
1	HW-T2450DP-RSMA	2400 ~ 2483 MHz

SUPPLIER			BUYER		
DOCUMENT	REVIEW	APPROVAL	DOCUMENT	REVIEW	APPROVAL
					
김 영 민		최 환			



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REVISION HISTORY

[illegible]

ANTENNA SPECIFICATION

1. MODEL: HW-T2450DP-RSMA

2. APPLICATION: This specification is provided for 2.45GHz DIPOLE ANTENNA.

3 ANTENNA used condition

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

4. ANTENNA Dimensions

Same as the attached Antenna drawing.

5. Electrical specification and performance

Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
5. 1	FREQUENCY RANGE	2400 MHz ~ 2483 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL	
5. 3	V. S. W. R	LESS THAN 1:2.0	
5. 4	GAIN	2.0 dBi	
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL	
5. 6	POLARIZATION	VERTICAL	

6. Mechanical specification and properties

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	SLEEVE	ABS	BLACK-COLOR
6. 2	“A” COVER	NYLON GRASS	BLACK-COLOR
6. 3	JOINT PIN*2EA	BRASS	Ni-PLATING
6. 4	“B” COVER	NYLON GRASS	BLACK-COLOR
6. 5	SMA(Male) CONNECTOR	BRASS	Ni-PLATING
6. 6	ANTENNA TOTAL LENGTH	100 ± 1.0 mm	

7. Reliability test and standards

NO	TEST	TEST Method	Decision
1	High Tem. storage	Temp.: 70℃, 48 Hour	* No transform about antenna * Satisfy the Electrical specification and performance
2	High Humidity storage	Temp.: 70℃, Humidity : 95% 48 Hour	
3	Low Tem. storage	Temp.: -40℃, 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

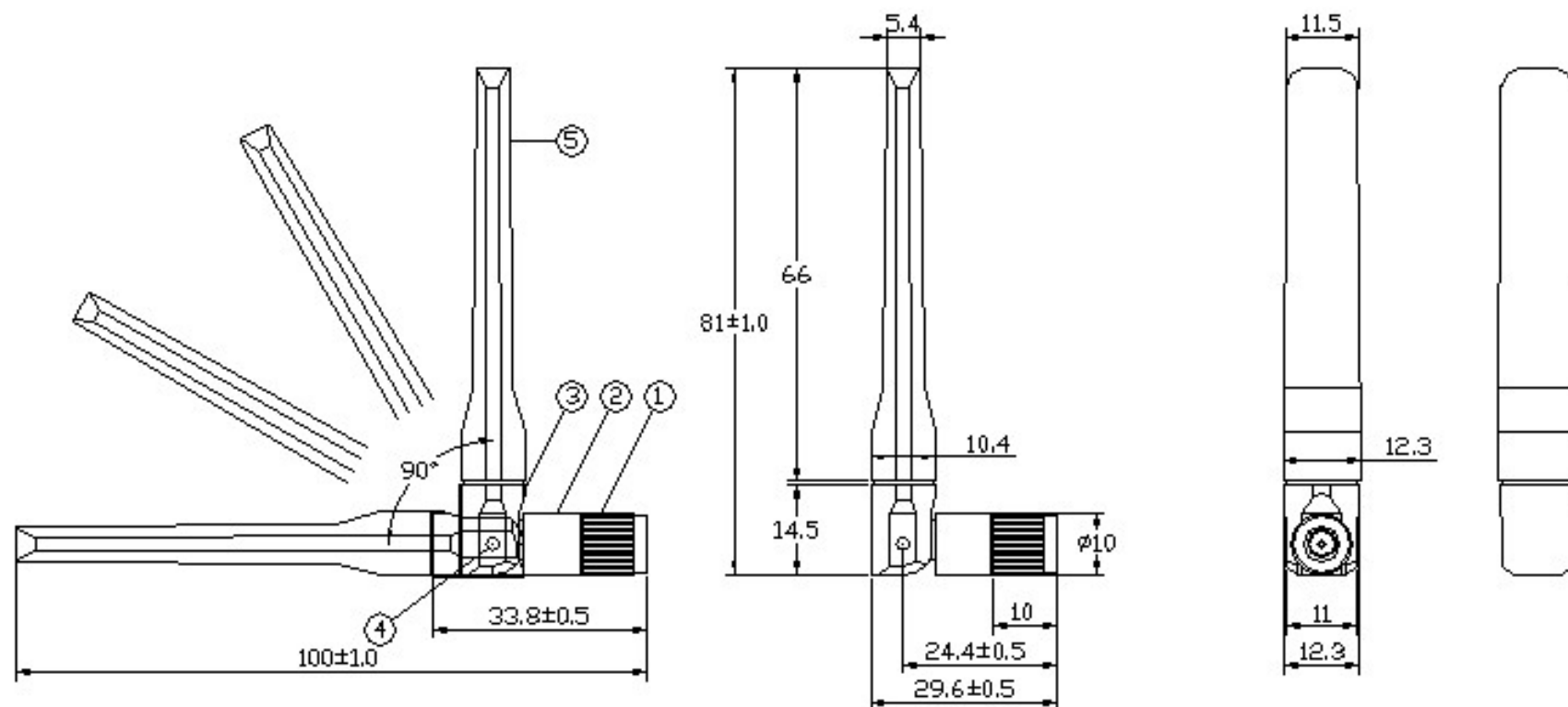
After packing the product according to the characteristics of the product, it is packed in an appropriate box to prevent movement.

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.

TOL Unless Noted	DIMENSION	mm	No	DATE	REVISION	CHECKER
X. = ±0.5	SCALE		△	201 . . .		
X.X = ±0.1	MATERIAL		△	201 . . .		
X.XX = ±0.05	FINISH		△	201 . . .		



5	SLEEVE	ABS	BLACK-COLOR
4	JOINT PIN*2EA	BRASS	NI-PLATING
3	'B' COVER	NYLON GRASS	BLACK-COLOR
2	'A' COVER	NYLON GRASS	BLACK-COLOR
1	SMA(m) CONNECTOR	BRASS	NI-PLATING
No.	PART NAME	MATERIAL	FINISH

TITLE	DIPOLE ANTENNA ASS'Y	MODEL	HW-T2450DP-RSMA
Drawn	Checked	Approval	Date
W.C.LEE		C.G.NAM	2019.01.15
DWG No.	File Name		
190115-01	원시스		

26 Apr 2009 22:25:50

CH1

S11 SWR 1 / REF 1

1: 1.3329 2 400.000 000 MHz

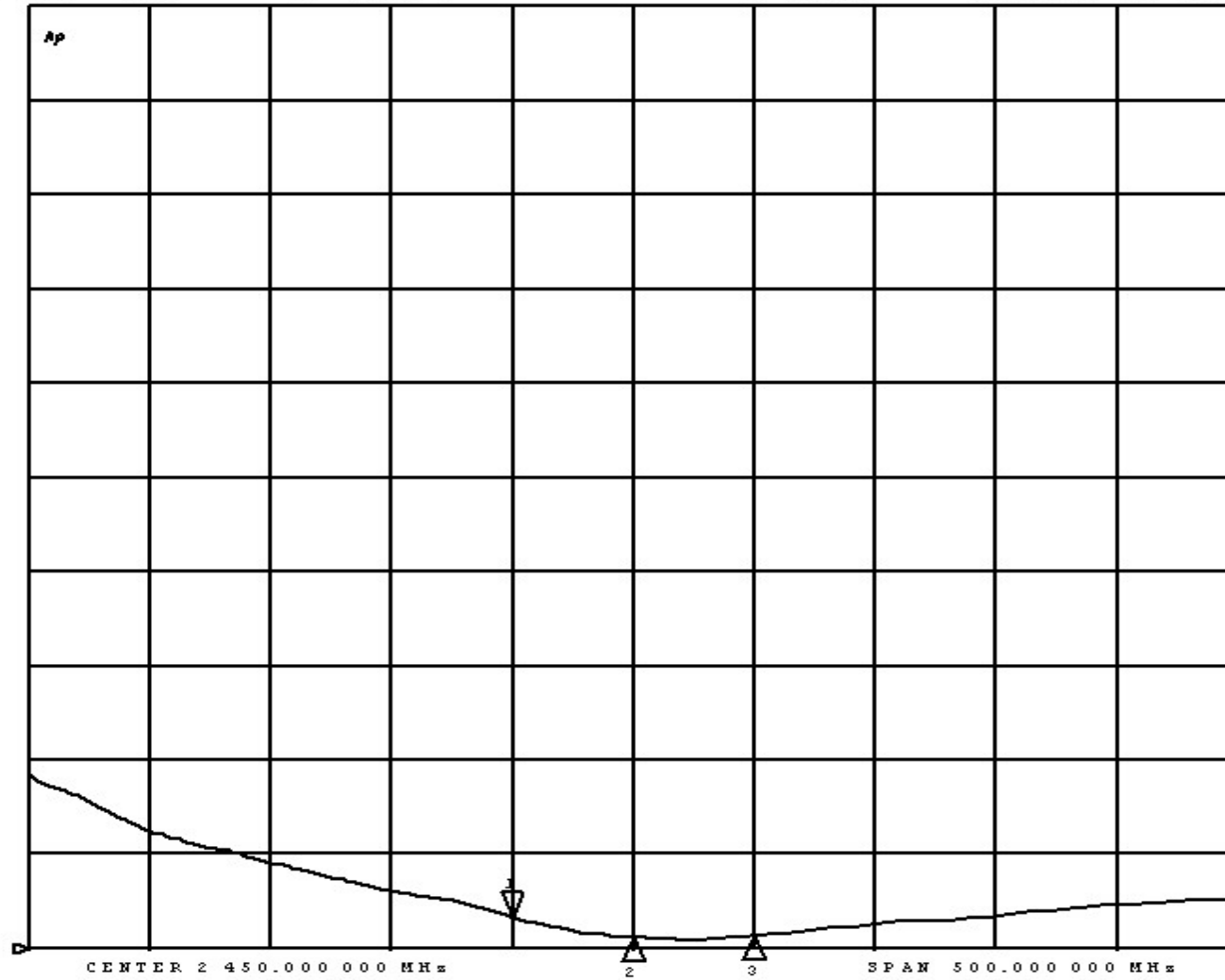
Ap

Cor

CH1 Markers

2: 1.1223
2.45000 GHz

3: 1.1423
2.50000 GHz



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CH1

S11 1 V FS

1: 41.092 Ω 11.115 Ω 737.10 pM

2 400.000 000 MHz

Ap

Cor

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CH1 Markers

2: 47.234 Ω

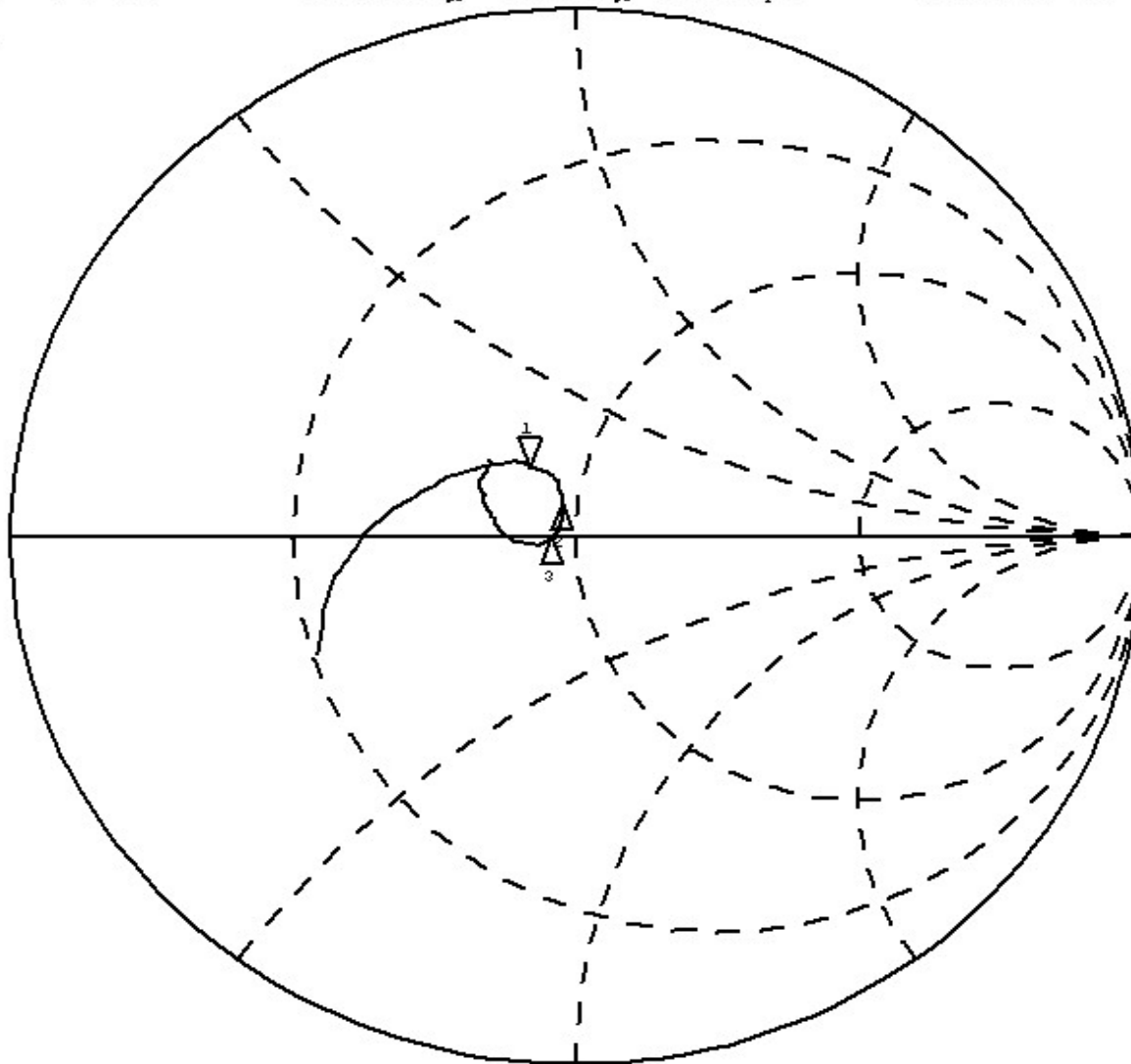
6.0098 Ω

2.45000 GHz

3: 45.955 Ω

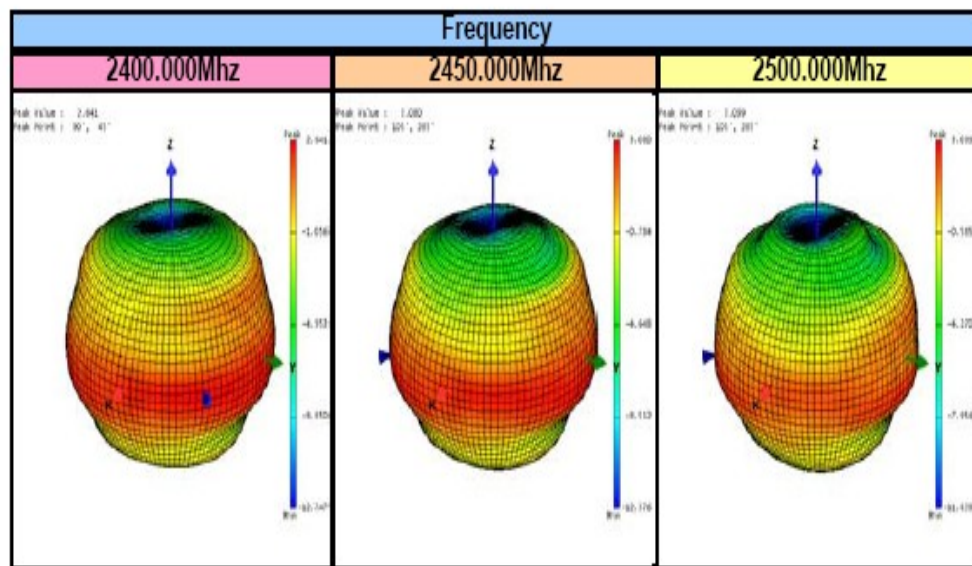
-150.16 m Ω

2.50000 GHz

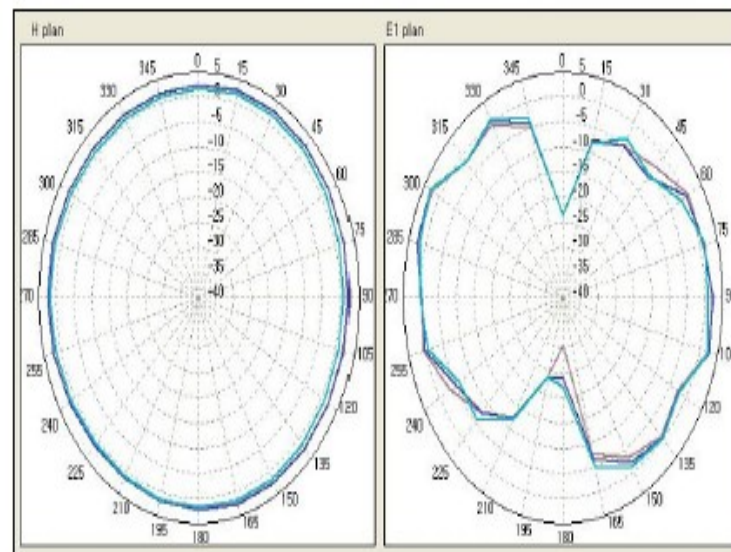


CENTER 2 450.000 000 MHz

SPAN 500.000 000 MHz



3D-Pattern



2D-Pattern

	Frequency[MHz]	PeakValue	Theta[deg]	Phi[deg]	MinValue	Theta[deg]	Phi[deg]	3D Avg[dBi]
	2400.000	2.819	90	45	0	0	0	2.268
	2450.000	2.882	90	30	0	0	0	2.296
	2500.000	2.010	90	30	0	0	0	1.457