

NA-900M

Antenna Specifications

Model Type: NA-900M-260MM

Code: 304607001041

V1.0

2026-04

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About This Document

Scope

This document is applicable to NA-900M-260MM Antenna.

Audience

This document is intended for system engineers (SEs), development engineers, and test engineers.

Change History

Issue	Date	Change	Changed By
1.0	2022-03	Initial draft	Yang Pin

Conventions

Symbol	Indication
	Indicates danger or warning. This information must be followed. Otherwise, a catastrophic module or user device failure or bodily injury may occur.
	Indicates caution. This symbol alerts the user to important points about using the module. If these points are not followed, the module or user device may fail.
	Indicates instructions or tips. This symbol provides advices or suggestions that may be useful when using the module.

1 Antenna picture



2 Product Specifications

Name	900M Antenna	Model	NA-900M-260MM (T142A)
Frequency Range	850-930MHz	Dimensions	260MM
VSWR	≤ 2.0	Connector	/
AVG Gain	1.52dB	Radome Material	Top Bottom Fixing: ABS Rod sleeve: TPE
Input Impedance	50 Ω	Radome Color	Black
Polarization	Linear Polarization	Working Temperature	-40°C- +85°C
Radiation Direction	Omnidirectional	Antenna Type	External Antenna

3 Product Features

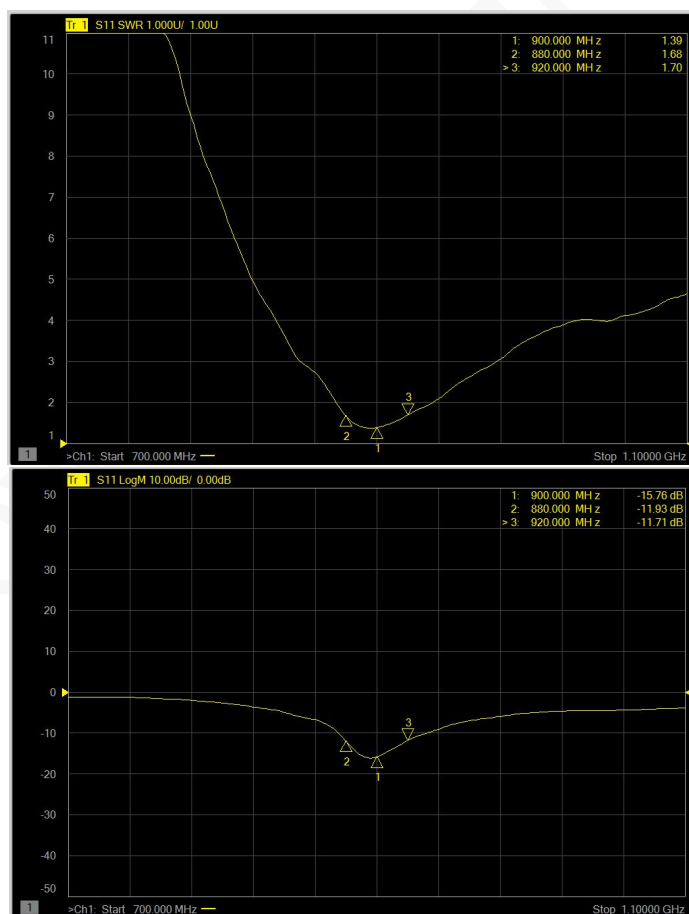
- The full-band efficiency is guaranteed, and the average efficiency of the full-band is $>60\%$, which ensures the radiation performance.
- A professional microwave darkroom is used to test the passive efficiency performance of the whole machine to ensure the passive efficiency index and ensure the normal communication function in actual use.

4 Antenna Passive Performance

4.1 VSWR

Frequency (MHz)	880	900	920
dB	-11.93	-15.76	-11.71
VSWR	1.68	1.39	1.70

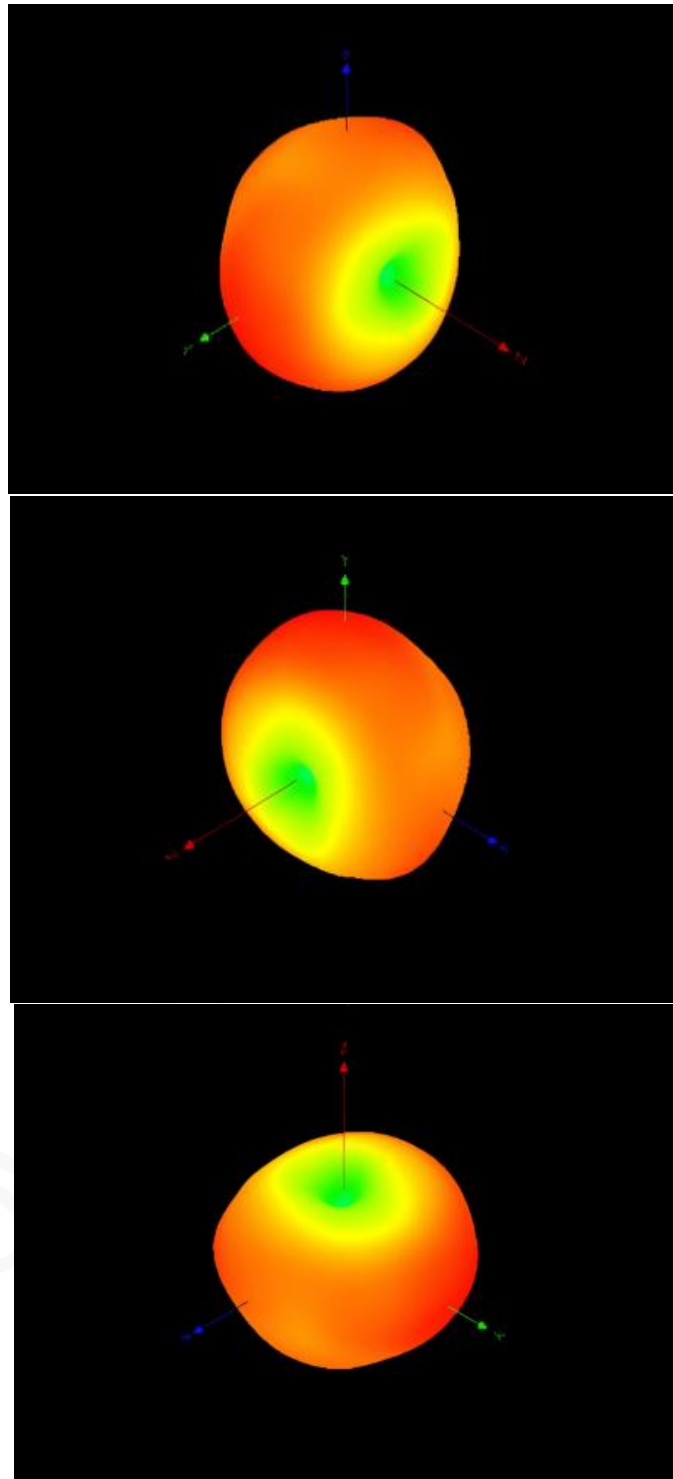
4.2 S11



4.3 Efficiency&Gain

Freq	Efficiency_dB	Gain	Efficiency_Pcent
880	-1.62	1.19	68.89
890	-1.23	1.47	75.37
900	-1.03	1.67	78.97
910	-0.96	1.75	80.24
920	-1.05	1.65	78.44

4.4 Radiation Patterns



green:Y
blue:X
red:Z

5 Antenna Drawing

Technical drawing of a petal-less structure antenna. The drawing shows a side view of the antenna with dimensions. The total length is 260 ± 5 mm. The diameter of the main body is 230 ± 3 mm. The drawing is labeled "petal-less structure" and "petal-less structure".

Version		Mark		Change Content		Signature		Date	
V01						Yu Chen		2026. 05. 30	

PROJECT	T142A	DESIGN	Yu Chen	Date	2026. 05. 30
NAME	900M Antenna	R F	Jun Peng Lu	Date	2026. 05. 30
Part NO.	F00200001184	APPRO	Longyue Qu	Date	2026. 05. 30
REV	V01	Drawing Limit	A4		
SCALE	1:1	Third Perspective			
UNIT	MM				