

Specification For Approval

Customer: Hexing

Part name: N(ZJ)-4G Antenna-L240MM

Part No: 3.05.0410007903

Customer Part No: 214010236001

Customer confirmation		
Confirmation	check	Approver

Manufacturer recognition			
Sales	Drafters	check	Approver
Liying	Zhengshaojuan	Wangwencai	Lihe
Thank you for giving us the chance to approve samples. If you agree to pass it, please kindly send it back to us.			

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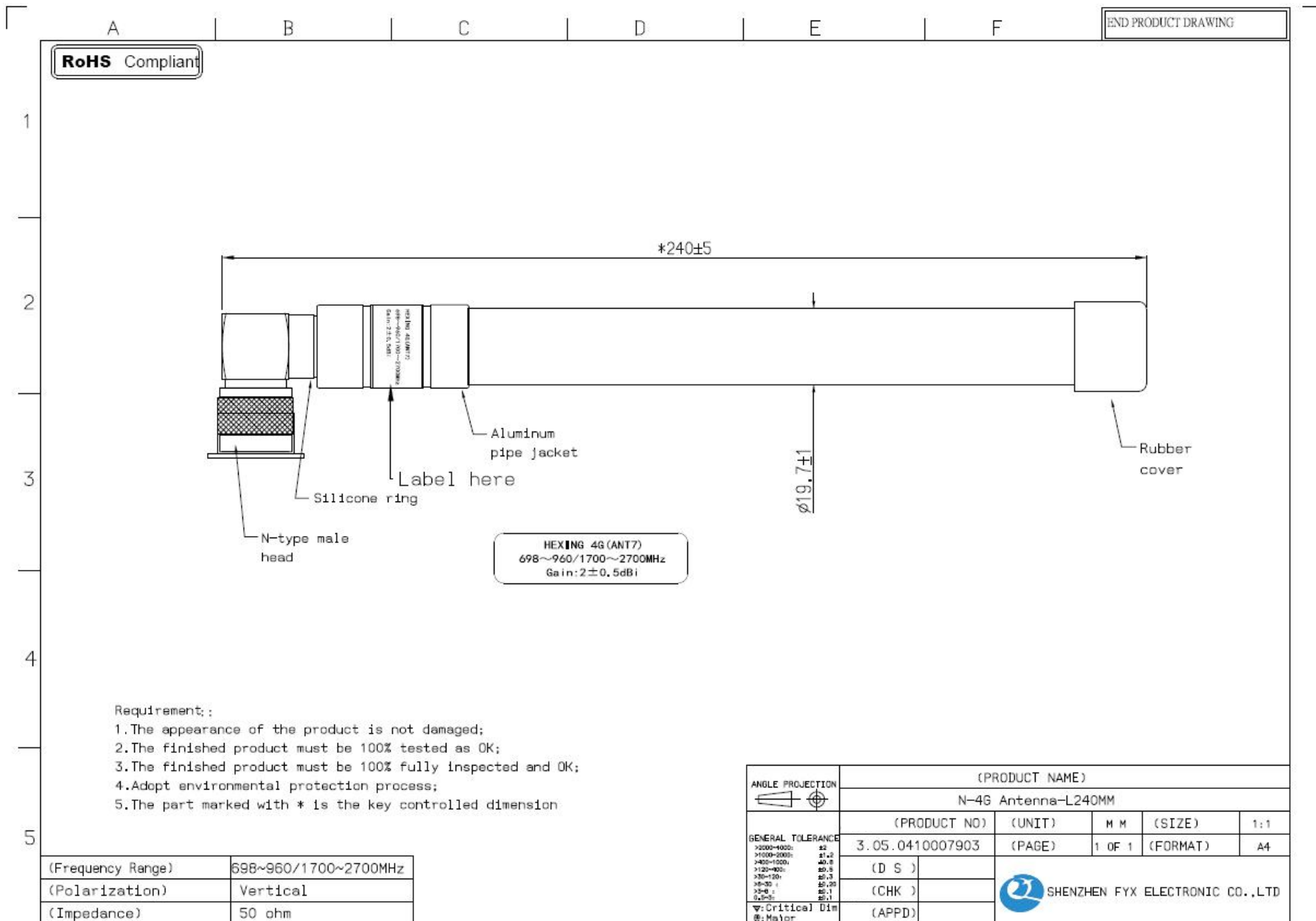
Catalog

1.Product dimension drawing.....	3
2.Product appearance.....	4
3.Antenna performance parameters.....	4
4.Cable specification.....	4
5.Environmental experiment.....	5-6

Revision record

edition	date	ngineer	Modification
A0	2025-9-3	zhengshaojuan	NEW

1. Product dimension drawing



2. Product appearance

Size	∅ 22.0*L240MM	Fixed mode	Screw fixed
colour	gray	Connector	N

3. Antenna performance parameters

Items	Specifications	unit
Center Frequency	698~960/1700~2700	MHz
Output impedance	50	Ω
V. S. W. R	Compare the sample waveforms	——
Gain	2±0.5	dBi
Polarization mode	Vertical polarization	
Radiation direction	omnidirectional	
Maximum input power	50	W
working temperature	-45~+80	℃
Storage temperature	-45~+85	℃

4. Cable head specification

serial number	name of parts	Texture	Clad layer	Remark
1	Inner conductor	Brass	Overgild	
2	Insulator	PTFE	/	
3	Shell	Brass	Nickel plating	

5.Environmental experiment

Environmental test report

5.1 High low temperature and constant humidity test

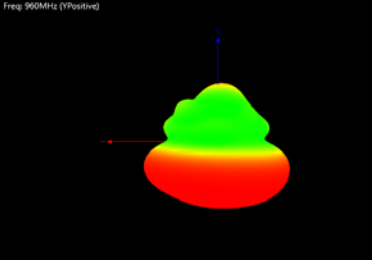
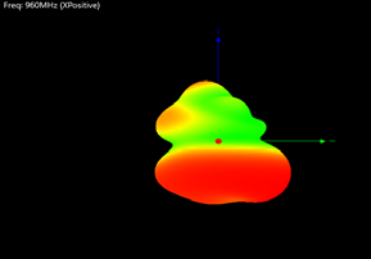
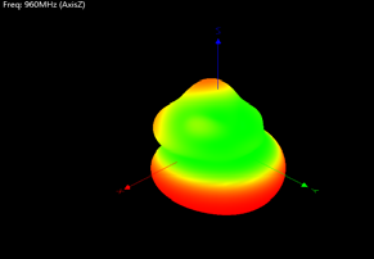
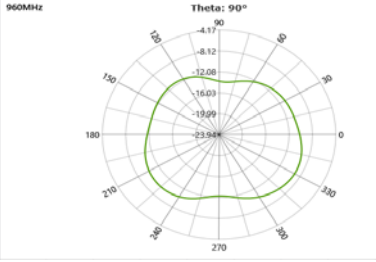
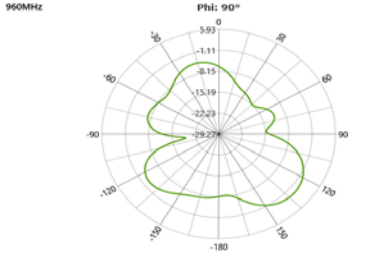
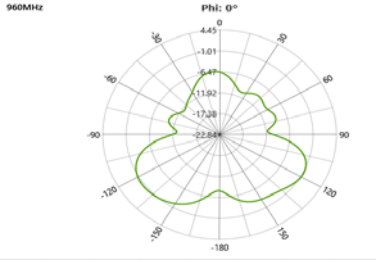
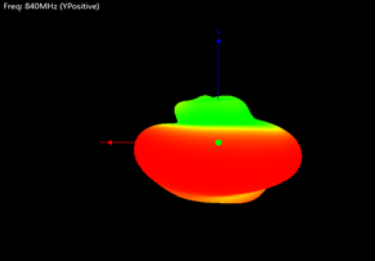
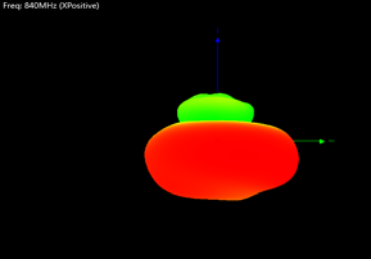
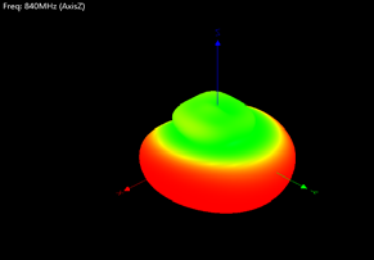
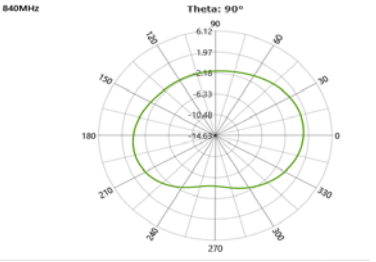
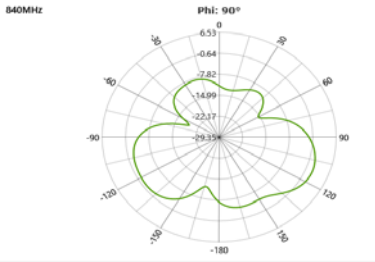
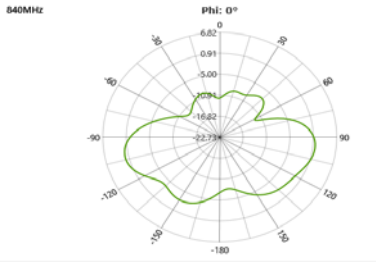
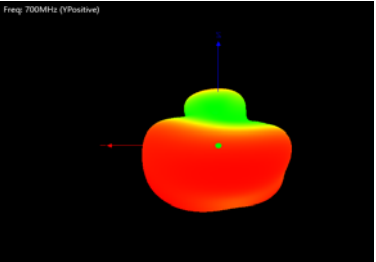
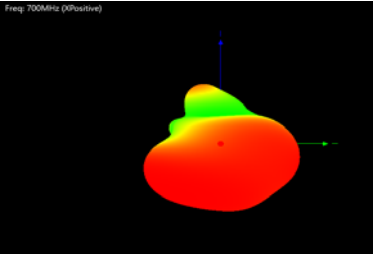
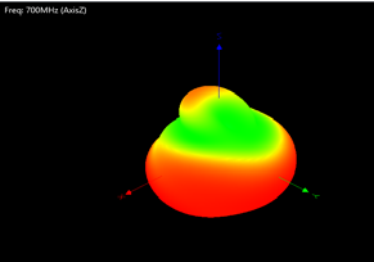
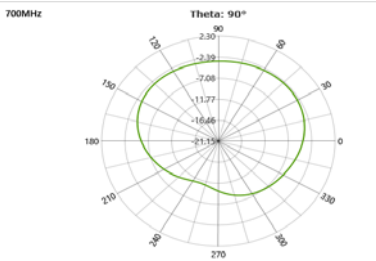
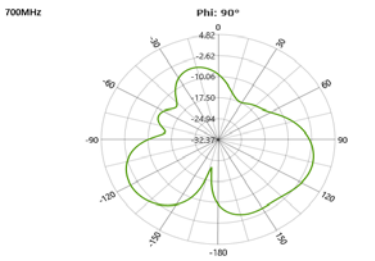
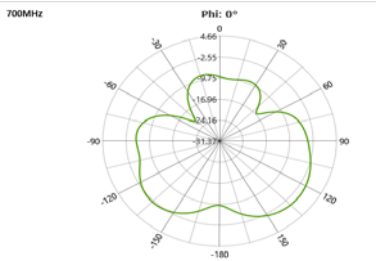
Items	High temperature, low temperature and constant humidity test			
Testing equipment	Alternating constant temperature and humidity test chamber			
Inspection standard	1. The coating on the metal surface shall be free of peeling, cracking, wrinkling and other defects; the non-metal part shall not have discoloration, cracking, deformation, degumming and other phenomena.			
Test name	Test items	requirement	test method	Result judgment
High temperature test	Temperature (°C) Test sample temperature time (H) Recovery time (H)	85±3℃ 12H 1H	Test procedure: a) Put the test piece into the test chamber, and then adjust the temperature of the high temperature chamber to 85 °C±3 °C, and monitor the time. b) After the test, it was placed at room temperature for 1 hour for routine inspection.	OK
Low temperature test	Temperature (°C) Test sample temperature time (H) Recovery time (H)	-45±3 12H 1H	Test procedure: a) Put the tested part into the test chamber, and then adjust the temperature of the low temperature chamber to -45℃±3℃, and monitor the time. b) Place at room temperature for 1 hour after test for routine inspection.	OK
Constant damp heat test	Temperature (°C) Test sample temperature time (H) Test duration (H) Recovery time (H)	40±3℃ 70-85% 24H 1H	a) Put the tested object into the test chamber, then adjust the temperature of the test chamber to + 40 °C±3 °C, the humidity to 90-95%, and monitor the time. b) After the test, it was placed at room temperature for 1 hour for routine inspection.	OK
Identifying person:Guoguangfen		Give permission to: Xiezhoujun		

5.2 Salt spray test

Items	Salt spray test
Testing equipment	Salt spray tester

Inspection standard	1. The coating on the metal surface shall not fall off; the appearance shall be free of rust, corrosion, oxidation and other adverse phenomena.			
Test name	Items	requirement	test method	Result judgment
Salt spray test	1. NaCl concentration: 2. Air pressure: 3. PH value: 4. spray volume: 5. Salt water test temperature setting a. Laboratory temperature: b. Pressure tank temperature: 6. Test time:	40-60g/kg $1.0 \pm 0.01 \text{ kgf m}^2$ 6.5-7.2 1.0-2.0ml/80c/h. $35 \pm 1^\circ\text{C}$ $47 \pm 1^\circ\text{C}$ 24H	Test procedure: a) Adjust the salt spray tester to relevant test conditions. b) Put the test piece into the salt spray testing machine for 24 hours. After the test, rinse with clean water, visually inspect the appearance of the tested parts, and carry out routine inspection.	OK
Identifying person:Guoguangfen			Give permission to: Xiezhoujun	

Frequency(MHz)	Gain(dBi)	Efficiency(%)
700	2.36	64.22
720	2.22	65.13
740	2.03	62.44
760	2.12	65.58
780	2.29	64.14
800	2.22	64.05
820	2.35	63.41
840	2.41	63.13
860	2.31	64.11
880	2.37	64.13
900	2.46	63.89
920	2.54	63.85
940	2.51	64.13
960	2.33	65.67



Frequency(MHz)	Gain(dBi)	Efficiency(%)
1700	3.12	65.46
1800	3.15	67.07
1900	3.18	66.79
2000	3.35	67.12
2100	3.28	66.74
2200	3.51	65.26
2300	3.15	66.38
2400	3.39	67.36
2500	3.76	67.42
2600	3.63	67.02
2700	3.19	67.84

