

Admission

SPECIFICATION FOR APPROVAL

Customer name: _____

Customer data: _____

Product name specification: 915MHz antennaVertex material number: DD200008047Version: V1.0

Customer signature: _____ Date: _____ Year _____ Month _____ Day _____

Purchasing Department	Works Department	Approved

Peak Technology: _____ Date: _____ Year _____ Month _____ Day _____

Works Department	Sales Department	Approved
Wu Liangchao		Lichao

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

Revision of records		
Version number	Change the content	Effective date
V1.0	The initial version	2026-01-21

Product image



Product parameters

Name	915MHz antenna
Model Type	DDA-U915-TH1611
FrenquencyRange	900-930MHz
Impedance	50 Ω
VSWR	<2.0
Gain	≥ 2.11 dB
Polarization	Linear polarization
Radiation	omnidirectional
Power	50W
Plating	1.5u"
Salt spray time	24H
Working Temperature	-45°C--+85°C
Limit Temperature	-45°C--+85°C

Antenna test environment



Test system: SY-16M antenna measurement system SY-24M antenna measurement

system test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

test equipment: Agilent 5071C Network analyzer, Agilent 8960 integrated
measuring instrument, CMW5004G integrated measuring instrument

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1、VSWR、smith、log



2、gain、efficiency、

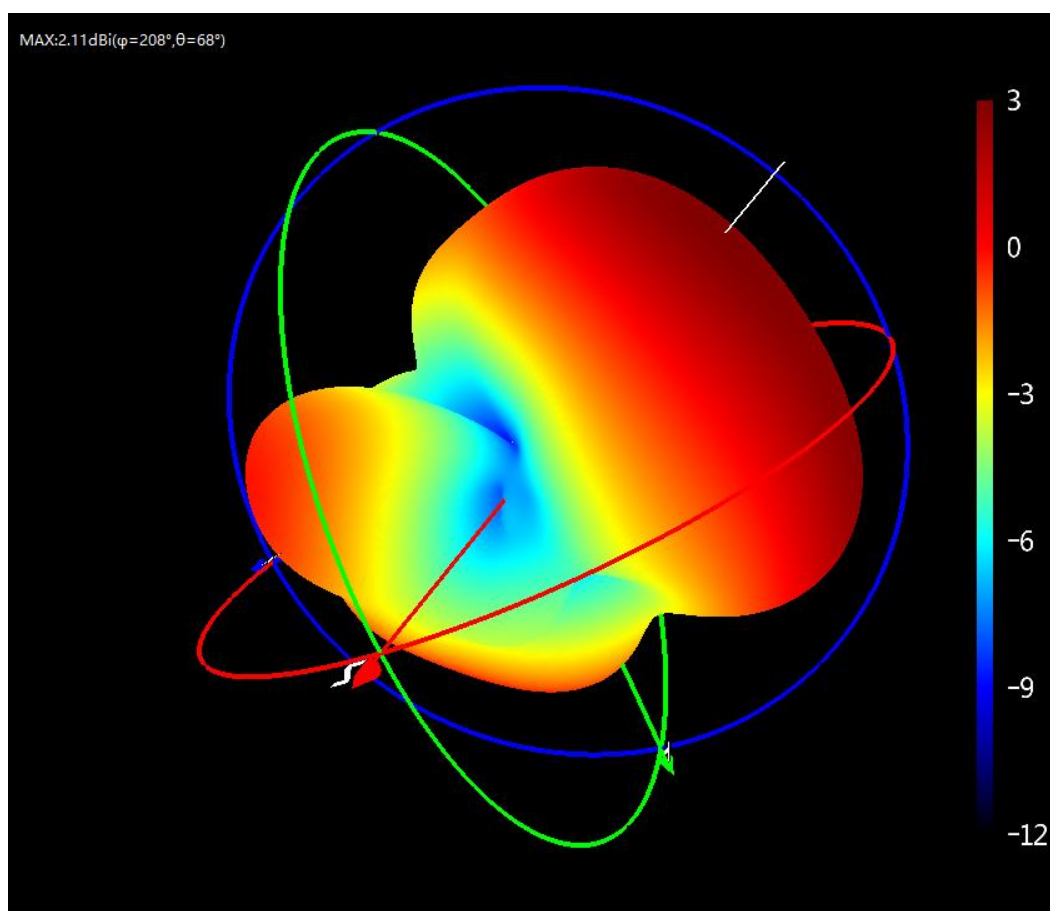
Frenquency (MHz)	gain (dBi)	efficiency (%)
900	2	50.85
901	2.04	51.04
902	2.07	51.23
903	2.07	50.96
904	2.09	51
905	2.11	51.09
906	2.11	51.07
907	2.06	50.53
908	2.09	50.78

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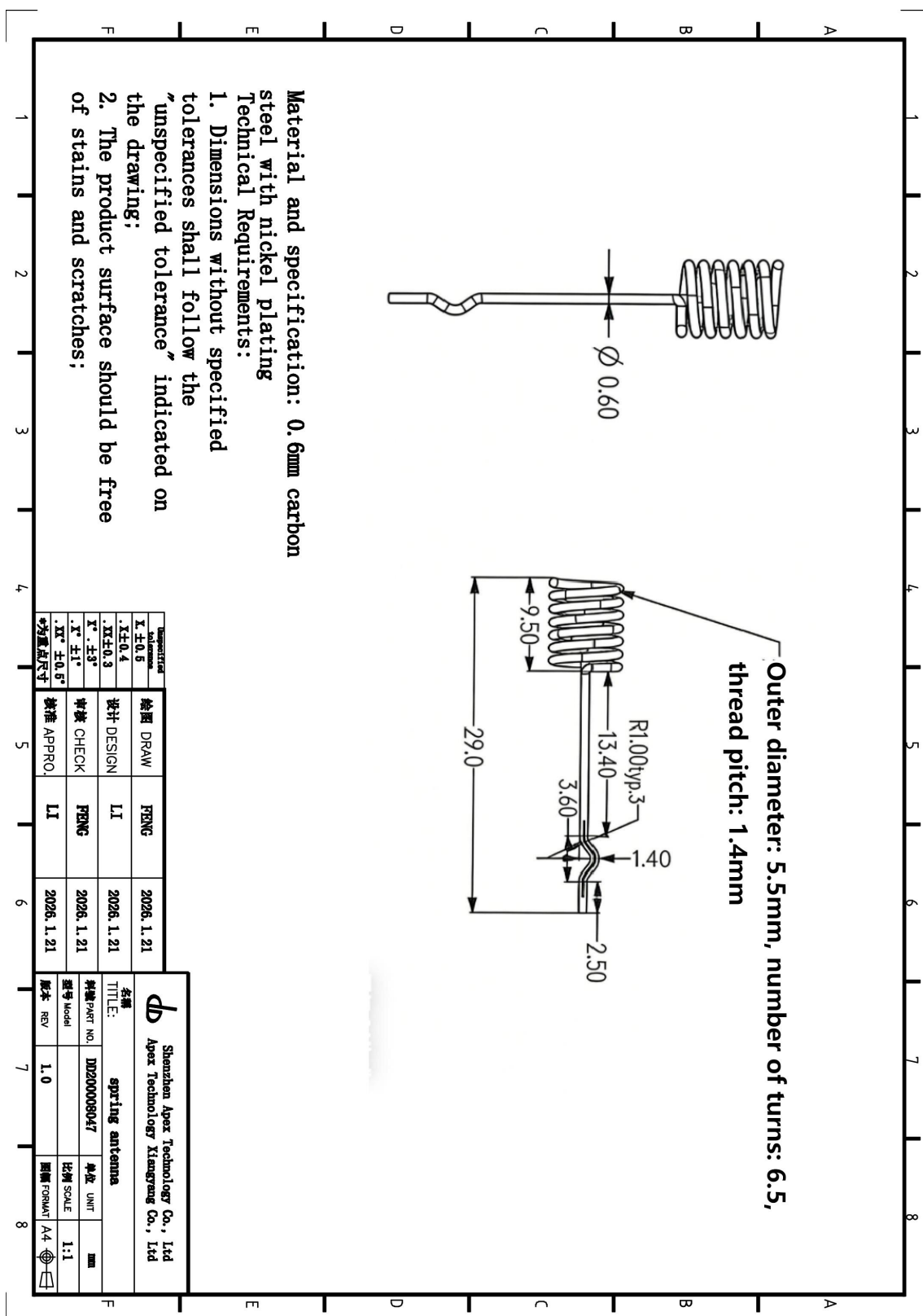
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909	2.07	50.78
910	2.06	50.9
911	2.01	50.17
912	2.03	50.14
913	2	49.85
914	1.96	49.44
915	1.92	48.76
916	1.91	48.69
917	1.88	48.36
918	1.83	47.86
919	1.78	47.32
920	1.76	47.15
921	1.7	46.46
922	1.6	45.56
923	1.54	44.87
924	1.48	44.4
925	1.42	43.96
926	1.33	43.28
927	1.26	42.73
928	1.21	42.48
929	1.14	41.98
930	1.03	41.13

direction map



Product Structure Diagram



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High and low temperature humidity test report

test project	High temperature, low temperature and constant humidity test					
Test sample Board name	915MHz antenna			date of observation		2026.1.20
Experiment / detection equipment	Humidity Chamber network analyzer			Test quantity		5 PCS
test standard	1. Metal surface coating without falling off, cracks, wrinkles and other bad, non-metallic parts can not have color change, cracking, deformation, degumming and other bad. 2. The electric test meets the design requirements and the voltage standing wave ratio test is qualified.					
test Name	Test item	Requirement	test method	Actual test data	Result	
					sample	determine
According to the method in Gb/t 2423.2-2001, the antenna shall be stored for 96 hours at the upper temperature of the storage document, and the electrical test shall be carried out at room temperature for 2 hours after the test						
High temperature test	Temperature (℃)	+85±3	In accordance with the method specified in GB/t 2423.2-2001	+87	1	qualified
	Temperature stabilization time of test sample (H)				2	qualified
	Test duration (H)				3	qualified
	Recovery time (H)				4	qualified
					5	qualified
According to the method in Gb/t 2423.1-2001, the antenna should be stored for 96 hours in the lower limit of storage temperature, and then the electric test should be carried out at room temperature for 2 hours after the test						
Low temperature test	Temperature (℃)	-45±3	In accordance with the method specified in GB/t 2423.1-2001	-46	1	qualified
	Temperature stabilization time of test sample (H)				2	qualified
	Test duration (H)				3	qualified
	Recovery time (H)				4	qualified

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					5	qualified
Constant humidity Thermal test	Temperature (°C) Temperature stabilization time of test sample (H) Test duration (H) Recovery time (H)	+40±2 90-95 21 1	In accordance with Chapter 5 of GB2423.3-93	+42 92 22 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified

9. Salt spray test

Salt spray test report			
Test item	Salt spray test		
Name of test sample	4G antenna	date of observation	2026.1.20
Device name	Salt spray corrosion test chamber	Test quantity	5 PCS
test method	The test samples were put into the modulated salt solution test chamber and salt spray corrosion chamber for continuous spray test.		
Concentration of salt solution	52g/L	PH value of salt solution: 6.5-7.2	Test cycle: 24h
Actual test data	55g/L	PH value of salt solution: 6.8	Test cycle: 24h
Test standard	According to the method in part 2 of GB/T2423.17-2008, the antenna was put into the salt fog test box and stored in the shed at 35 ° C for 8 hours, and at 40 ° C ± 2 ° C and 95% ± 3% rh for 16 hours after the shed was finished. Three cycles were carried out, and the amount of salt spray deposition was		

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	1.0 ml/h ~ 2.0 ml/h, and dried at room temperature for 48 h			
test result				
Number	Corrosion resistance grade	Corrosion resistance grade	Assessment result	Remarks
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	