

Product Number: ANT915-JT
Product Name: Antenna

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Product Number: ANT915-JT

Product Name: Antenna

1. Revision History

Revision	Date	Change Notification	Description
1.0	2021.10.29		

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2.Specification

Sample Photo	
	
Frequency	915MHz
S.W.R	<2.0
Antenna Gain	4
Efficiency (%)	70%
Radiation Pattern	<u>Omni-directional</u>
Max input power	>=2w
Polarization	Linear
Impedance	50 Ohm
B.Material&Mechanical Characteristics	
Materials of Radiator	CU
Materials of Plastic	PVC
Cable type	OD0.81
Connector type	OP
C.Environmental	
Operating Temp	-30℃~+85℃
Storage Temp	-30℃~+85℃
Antenna color storage life	<2 year

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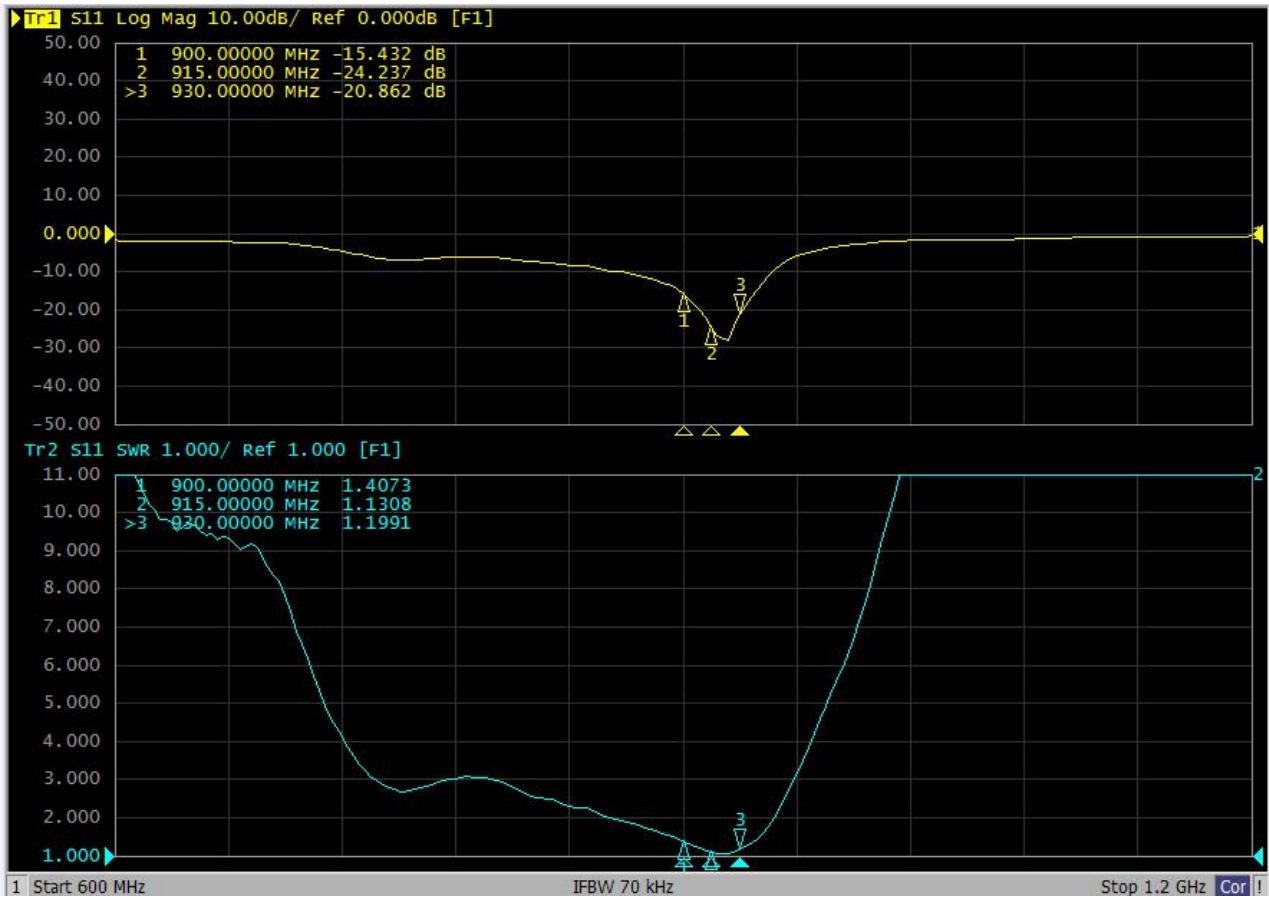
3. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

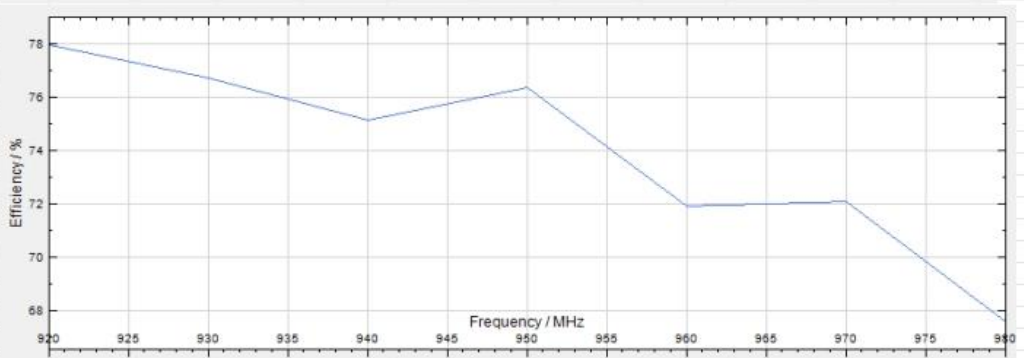
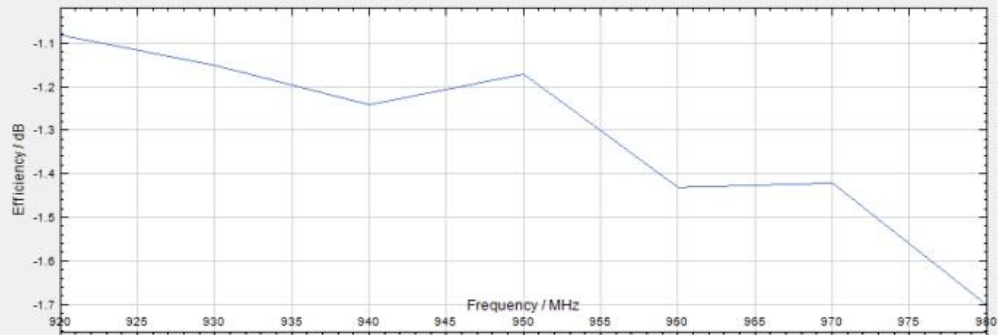
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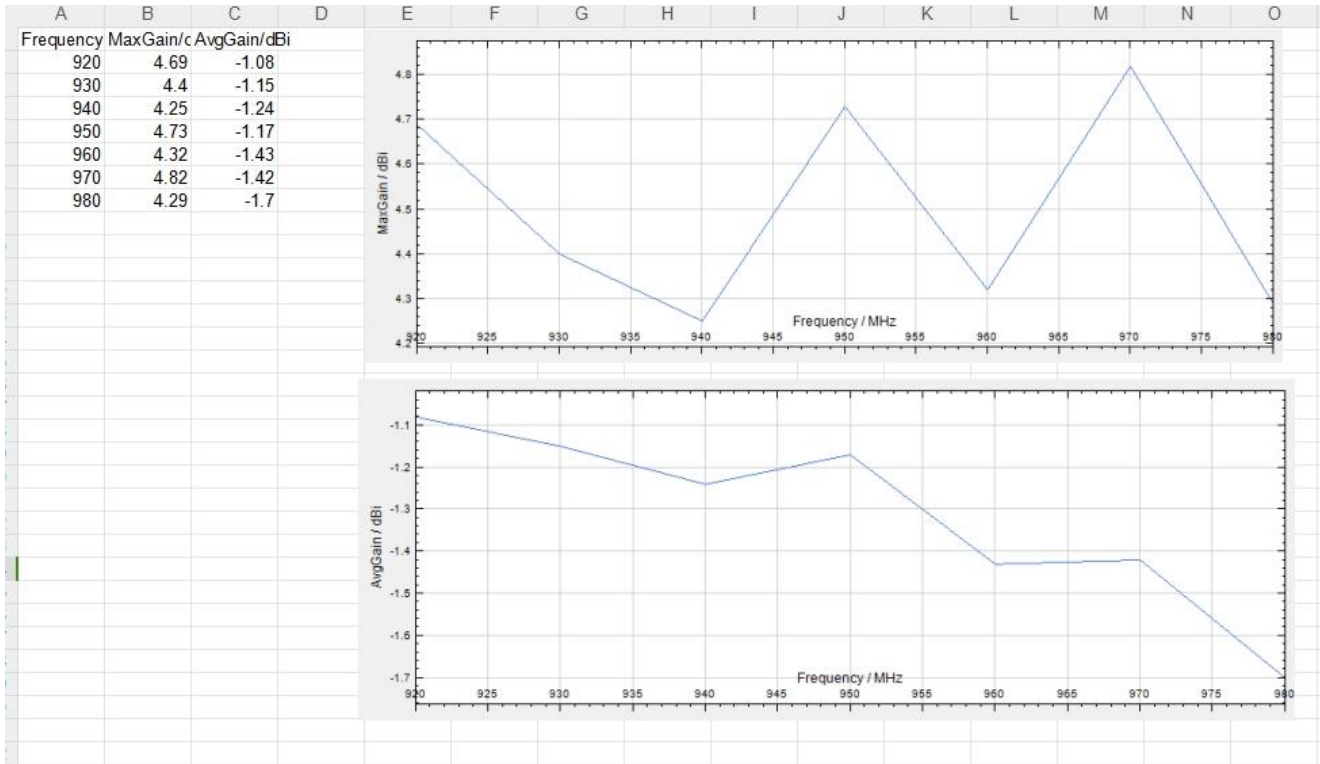
4. Antenna - S Parameter Test Data



Frequency	Efficiency	Efficiency / %
920	-1.08	77.98
930	-1.15	76.74
940	-1.24	75.16
950	-1.17	76.38
960	-1.43	71.94
970	-1.42	72.11
980	-1.7	67.61



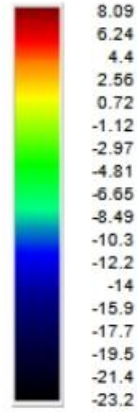
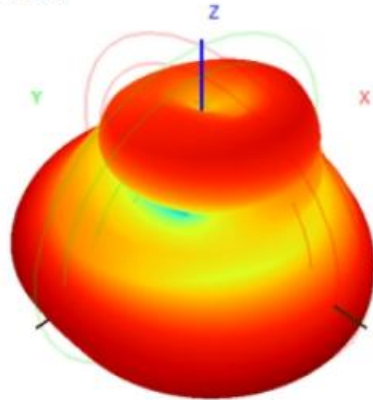
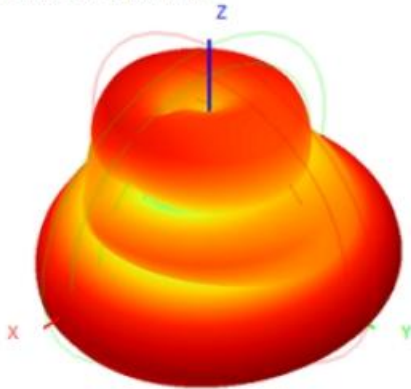
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5. Antenna - Radiation Pattern Test Data

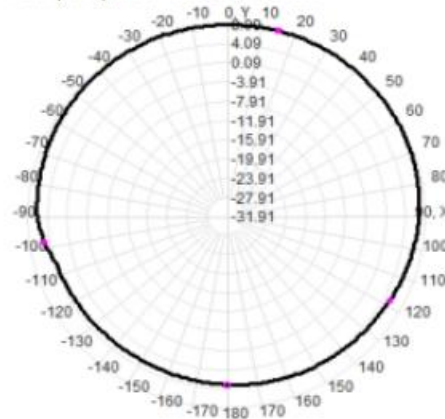
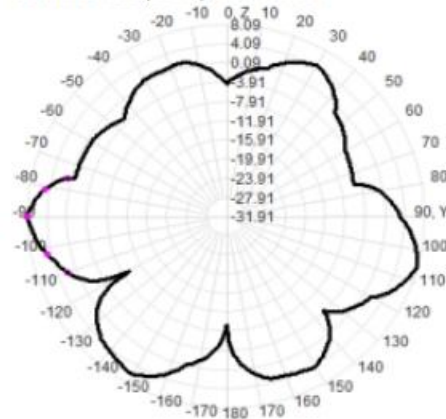
900.0MHz H+V, Eff: 77.1%

Back View



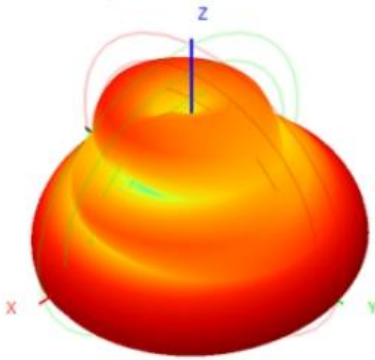
900.0MHz Total(E2-YZ), Max= 8.00dBi

Total(H+XY), Max= 8.09dBi, CirD=5.71

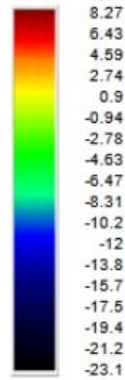
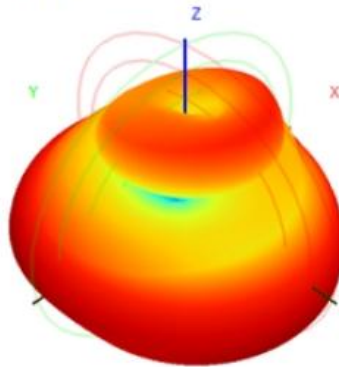


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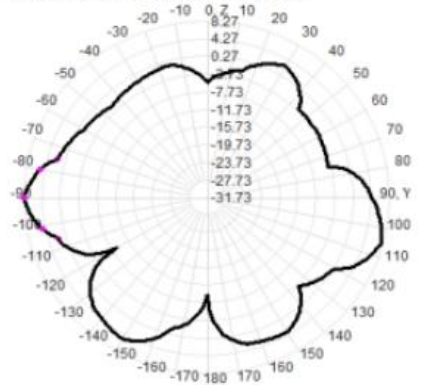
915.0MHz H+V, Eff. 81.2%



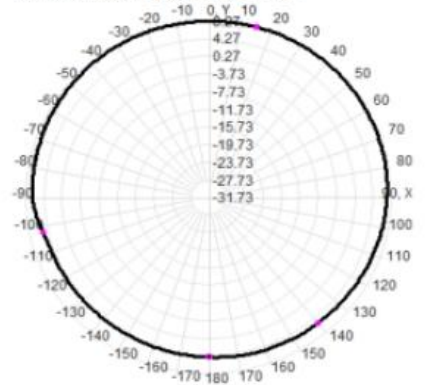
Back View



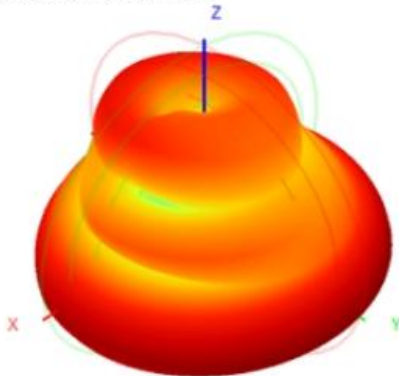
915.0MHz Total(E2-YZ), Max= 8.23dBi



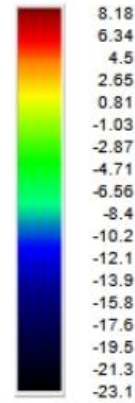
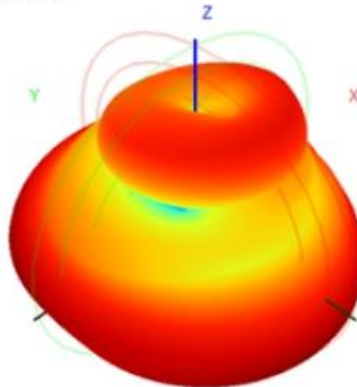
Total(H-XY), Max= 8.27dBi, CirD=4.41



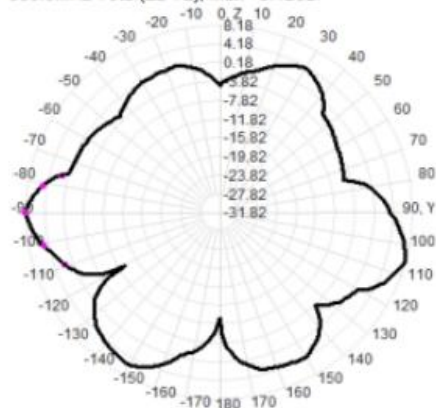
930.0MHz H+V, Eff. 78.3%



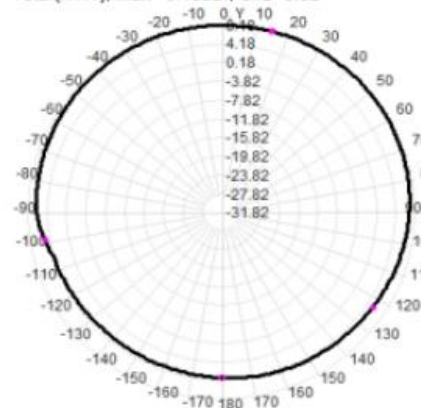
Back View



930.0MHz Total(E2-YZ), Max= 8.12dBi



Total(H-XY), Max= 8.18dBi, CirD=5.32



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单位: mm
比例: 1:1

