Product Name: Antenna





Sample Photo								
A. Electrical Characteristics								
Frequency	2400 ~ 2500 MHz							
S.W.R.	<= 2.0							
Antenna Gain	2.0±0.7dBi							
Polarization	Linear							
Impedance 50 Ohm								
B. Material & Mechanical Cha	aracteristics							
Material of Radiator	Cu							
Material of Plastic	Body: TPE							
	Hinge: PA+ABS							
	Holder: PA+ABS							
Cable Type	RG-178							
Connector Type	SMA Male Reverse							
Connector Pull Test	>= 3 Kg							
Connector Torque Test	200~600g.cm							
C. Environmental								
Operation Temperature	- 40 °C ~ + 65 °C							
Storage Temperature	- 40 °C ~ + 80 °C							

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Product Name: Antenna

2. Characteristics and Reliability Test



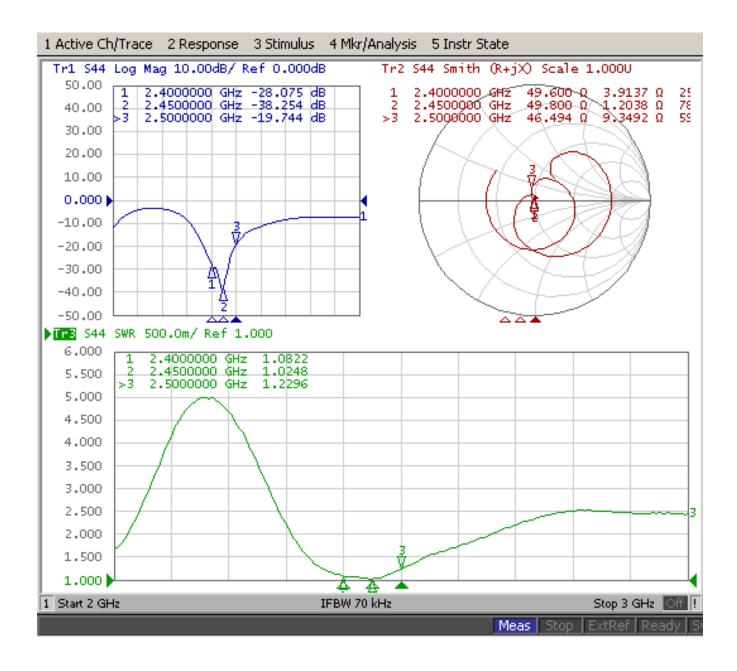
Test Items		Test Condition and Procedure	Requirements				
C1	S.W.R.	Set DUT on Network Analyzer; make individual	Directive DUT specification				
		calibration to test					
C2	Antenna	Set DUT on Antenna Chamber; make individual	Directive DUT specification				
	Gain	calibration to test					
M1	Vibration	MIL-STD-202G, 201A	1. No Visual Damage				
		Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz	2. Frequency Tol.<= 5%				
		3 directions; 2 hours for each direction					
M2	Random	Height: 1.5 Meter;	1. No parts separated				
	Drop	3 directions; 1 time for each direction	2. Frequency Tol.<= 5%				
М3	Solderability	MIL-STD-202G, 210F, cond. A	1. Mounted on PCB				
		Solder iron: 350±10°C; Duration: 5 seconds	2. No Visual Damage				
M4	Terminal-	MIL-STD-202G, 211A, cond. A	1. Directive DUT specification				
	Pull Test	Holding with individual specification; force applied	2. Frequency Tol.<= 5%				
		to axis of terminal					
M5	Terminal-	MIL-STD-202G, 211A, cond. E	1. Directive DUT specification				
	Torque Test	Holding with individual specification; applied	2. Frequency Tol.<= 5%				
		clockwise and counterclockwise to the axis of					
		terminal					
М6	Dimension	Inspection of dimension, color, material, package,	Directive DUT specification				
		surface process					
E 1	Salt Spray	MIL-STD-202G, 101E, cond. B	After 2 Hours Recovery				
		Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%;	1. No Visual Damage				
		Time: 48 hours	2. Frequency Tol.<= 5%				
E2	Humidity	MIL-STD-202G, 103B, cond. B	After 2 Hours Recovery				
		Temp: 40°C; RH: >= 95%; Time: 48 hours	1. No Visual Damage				
			2. Frequency Tol.<= 5%				
E 3	Thermal	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)	After 2 Hours Recovery				
	Shock	Cycles: 24	1. No Visual Damage				
			2. Frequency Tol.<= 5%				
E4	Life (High	MIL-STD-202G, 108A, cond. A	After 2 Hours Recovery				
	Temp.)	Temp: 85°C; Time: 96 hours	1. No Visual Damage				
			2. Frequency Tol.<= 5%				
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC				
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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Product Name: Antenna

3. Antenna - S Parameter Test Data





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Product Name: Antenna

4. Antenna - Radiation Pattern Test Data



Testing Equipment Specification:

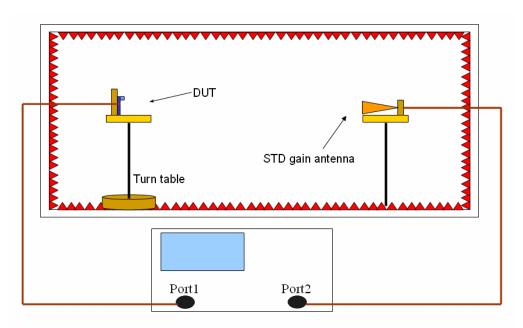
Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quite Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



5. Mechanical Drawing See attached files

6. Material Description and RoHS Test Report See attached files

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Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Model : R-AN2400-5701RS-Z // 1 Remark :H-Plane // Vertical Polarization Tested by : Antenna 3D Lab // Zhao Yao Rong

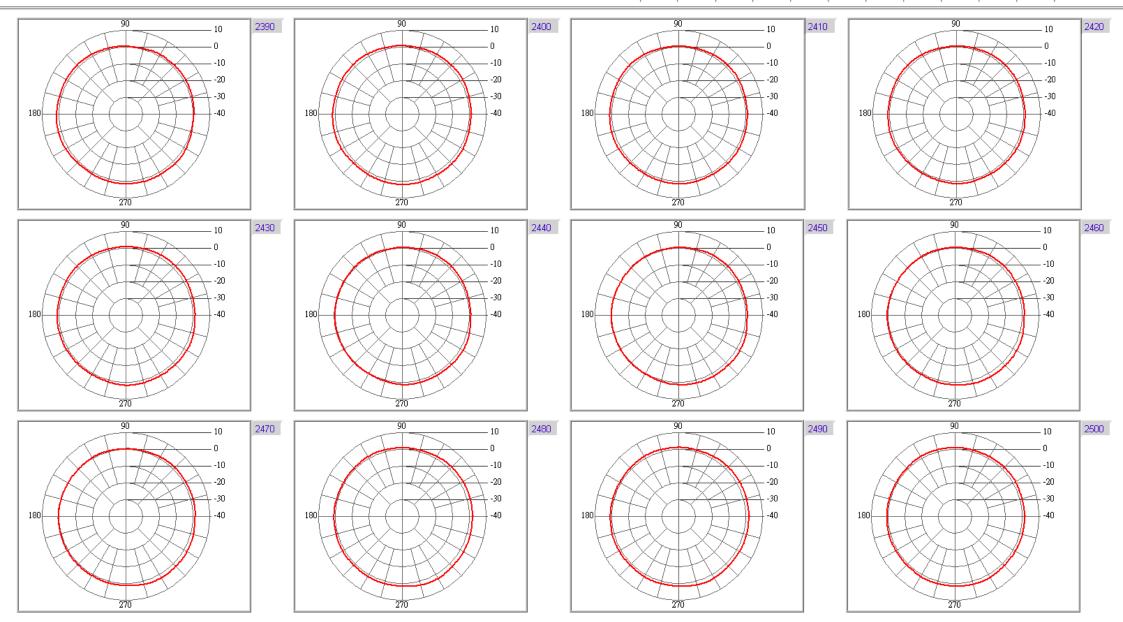
Location: Chamber
Temperatuer (°C): 22.00

Date: 2009/4/1
Humidity (%): 55.00

Time: 下午 07:30:21

Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	1.73	2.08	1.77	1.64	2.12	1.91	2.16	2.51	2.3	2.71	2.58	2.06
Peak Degree	270	276	270	270	332	332	337	325	295	295	294	294
AV Gain (dBi)	1.13	1.43	1.16	1.04	1.3	0.86	0.92	1.15	1	1.47	1.47	1.24





Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Model : R-AN2400-5701RS-Z // 1 Remark :E-Plane // Horizontal Polarization Tested by : Antenna 3D Lab // Zhao Yao Rong

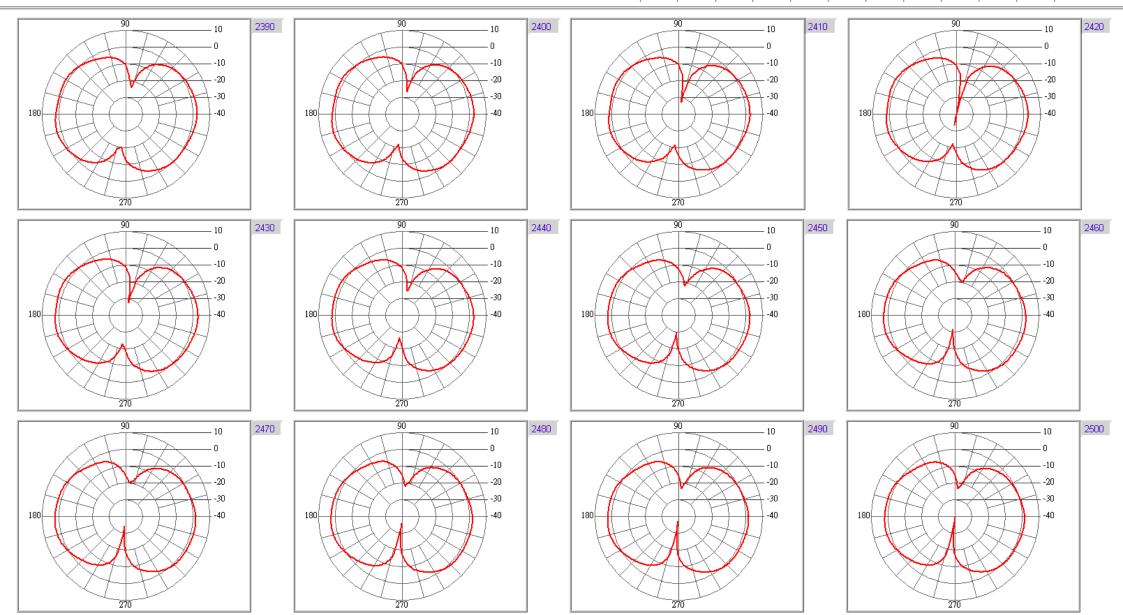
Location: Chamber
Temperatuer (°C): 22.00

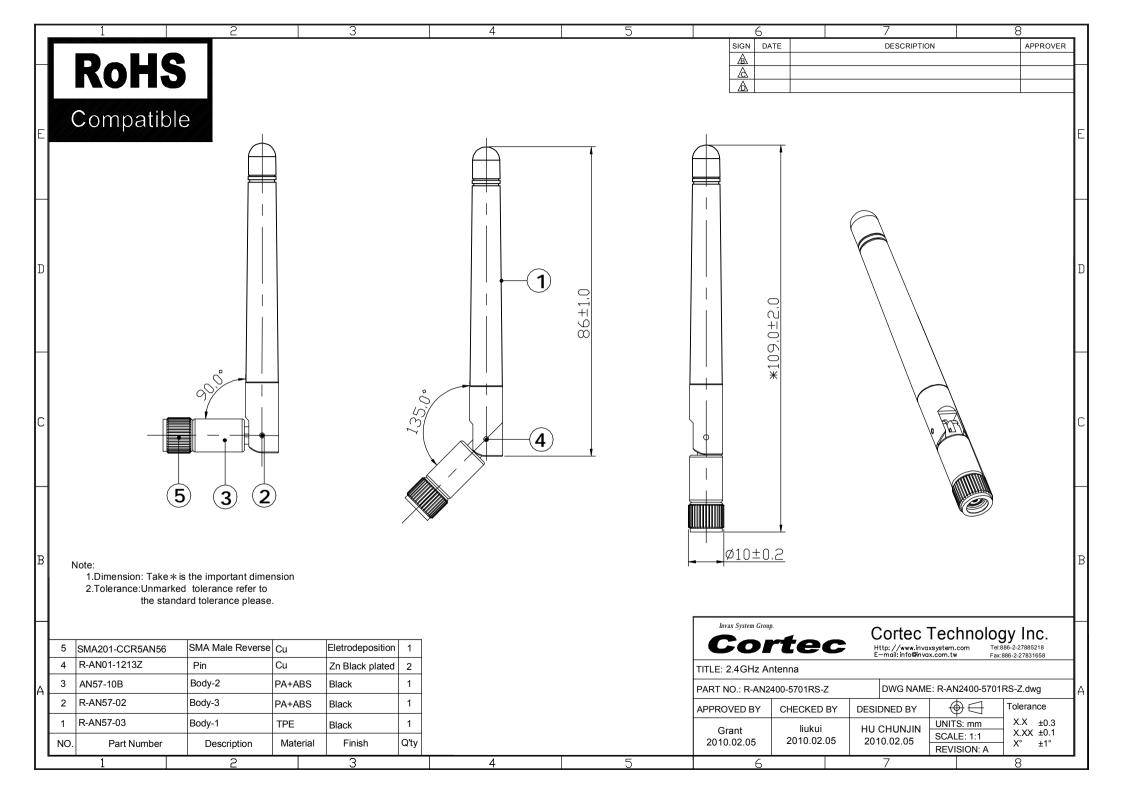
Date: 2009/4/1
Humidity (%): 55.00

Time: 下午 07:30:21

Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	2.59	2.89	2.8	2.92	3.22	2.81	2.71	2.7	2.44	2.62	2.49	2.12
Peak Degree	2	360	360	360	359	358	356	189	189	189	189	189
AV Gain (dBi)	-0.8	-0.63	-0.92	-0.88	-0.65	-1	-0.94	-0.85	-1.2	-0.97	-1.13	-1.47

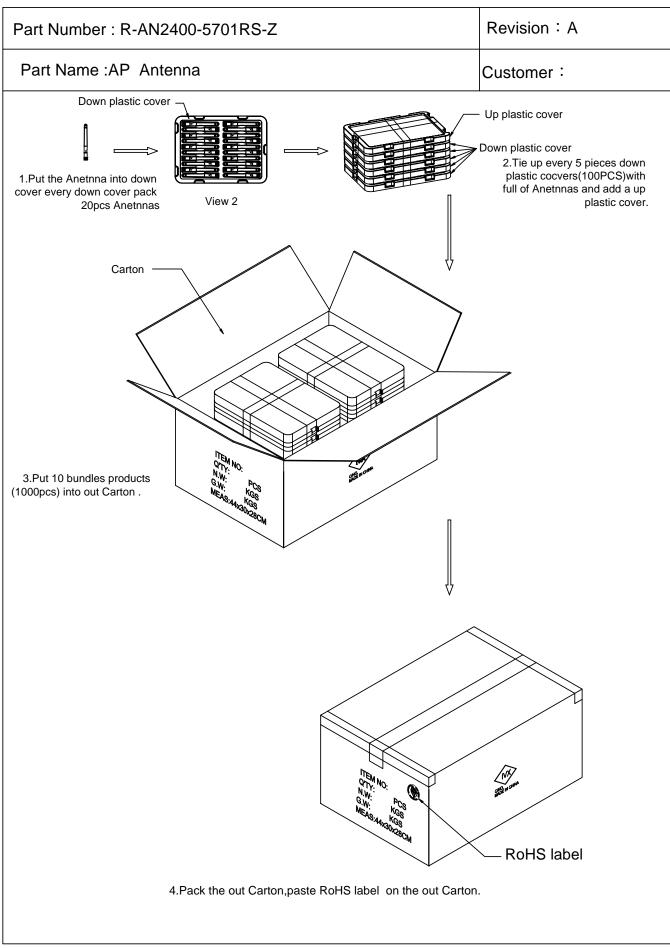




Cortec

Packing Criterion

Date: 2008/10/23 page: 1 of 1



Approve: Grant Check: Liukui Design: Tangshaowu