Product Name: Antenna



Specification For Approval

Date: 2012 / 11 / 28

File No.: 121128003

Version: 1.0

Customer: 奇揚網科股份有限公司

Customer P/N: / 300D03000001

INVAX P/N: AN2450-4828RS

Description: Antenna

Cortec Checked By:

R@D Dept 2012.11.28 Jack

Customer Approved By:







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Product Name: Antenna



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1. S pecification



Sample Photo								
A. Electrical Characteristics								
Frequency	2400 ~ 2500 MHz							
	5150 ~ 5850 MHz							
S.W.R.	<= 2.0 @ 2400 ~ 2500 MHz							
	<= 2.5 @ 5150 ~ 5850 MHz							
Antenna Gain	`&0 dBi @ 2400 ~ 2500 MHz							
	2.0 dBi @ 5150 ~ 5850 MHz							
Efficiency(%)	70~80% @ 2400~2500 MHz							
	60~70% @ 5150~5850 MHz							
Radiation Pattern	Omni-Directional							
Max Input Power	>= 2 W							
Polarization Linear								
Impedance	50 Ohm							
B. Material & Mechanical Characteristics								
Material of Radiator	CU							
Material of Plastic	Body: TPEE							
	Hinge: ABS							
	Holder: ABS							
Cable Type	RG-178U							
Connector Type	SMA Male Reverse							
Connector Pull Test	>= 3 Kg							
C. Environmental								
Operation Temperature	- 40 °C ~ + 65 °C							
Storage Temperature	- 40 °C ~ + 80 °C							
Antenna Color Storage life < 2 year								

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2. Characteristics and Reliability Test



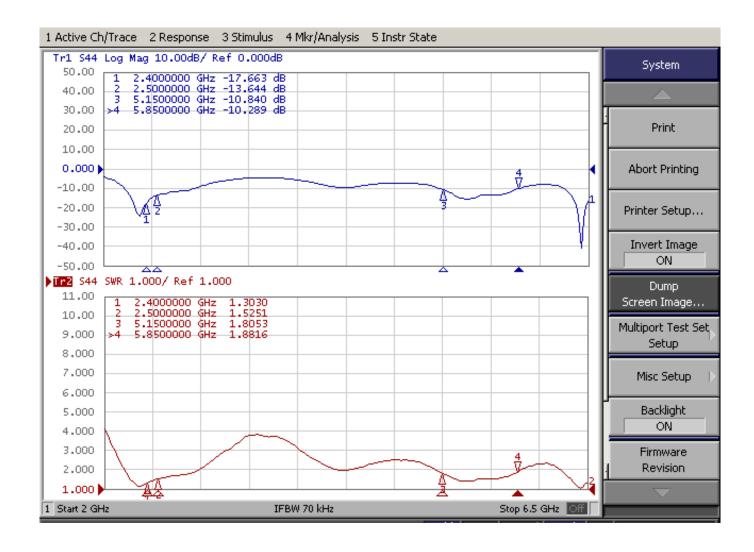
Test Items		Test Condition and Procedure	Requirements			
C1	S.W.R.	Set DUT on Network Analyzer; make individual	Directive DUT specification			
		calibration to test				
C2 A	nt enna	Set DUT on Antenna Chamber; make individual	Directive DUT specification			
	Gain	calibration to test				
М1	Vibration	GB / T2423 . 48-1997	1. No Visual Damage			
		Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz	2. Frequency Tol.<= 5%			
		3 directions; 2 hours for each direction				
M2 Rand om		GB / T2423.8-1995	1. No parts separated			
	Drop	Height: 1.0 Meter;	2. Frequency Tol.<= 5%			
		3 directions; 1 time for each direction				
М3	Solderability	GB 2423 . 28- 82	1. Mounted on PCB			
		Solder iron: 260±5°C; Duration: 5 seconds	2. No Visual Damage			
M4 T	erminal-	Holding with individual specification; force applied	1. Directive DUT specification			
	Pull Test	to axis of terminal	2. Frequency Tol.<= 5%			
M5 T	erminal-	Holding with individual specification; applied	1. Directive DUT specification			
	Torque Test	clockwise and counterclockwise to the axis of	2. Frequency Tol.<= 5%			
		terminal				
М6	Dimension	Inspection of dimension, color, material, package,	Directive DUT specification			
		surface process				
E1	Salt Spray	GB / T 2423 . 17- 93	After 2 Hours Recovery			
		Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%;	1. No Visual Damage			
		Time: 24 hours	2. Frequency Tol.<= 5%			
E2	Humidity	GB / T 2423 . 4 - 93	After 2 Hours Recovery			
		Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%;	1. No Visual Damage			
		Time: 24 hours	2. Frequency Tol.<= 5%			
E3 T	hermal	GB / T 2423 . 22 - 87	After 2 Hours Recovery			
	Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)	1. No Visual Damage			
		Cycles: 24	2. Frequency Tol.<= 5%			
E4 L	ife (High	GB /T 2423 . 2 - 89	After 2 Hours Recovery			
	Temp.)	Temp: 80°C; Time: 24 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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3. Antenna - S Parameter Test Data



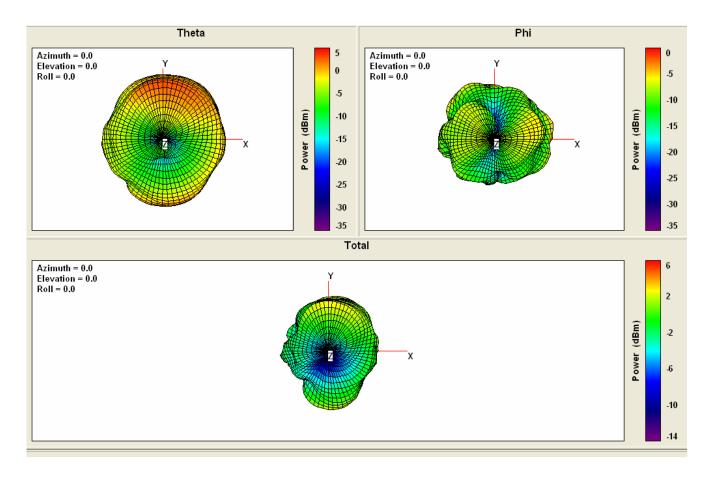


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4. Antenna - Radiation Pattern Test Data

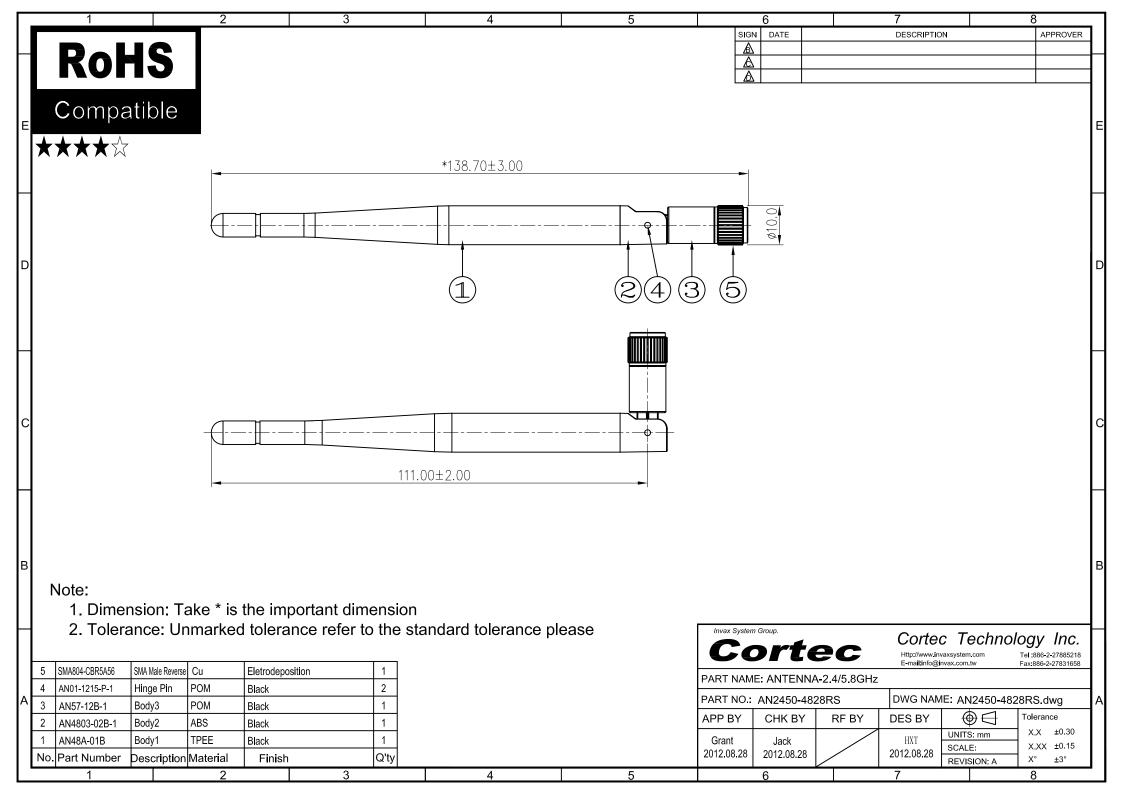




5. Mechanical Drawing See attached files

6. Material Description and RoHS Test Report See attached files

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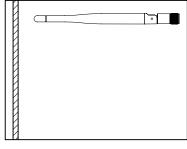
產品包裝規範 PACKING CRITERION



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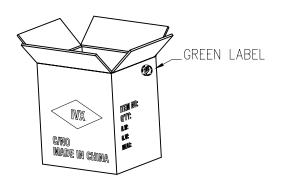
Part Number : AN2450-4828RS	Revision: A
Name: AP ANTENNA	Customer : ALL

- . WITH THE ANT INTO THE BAG



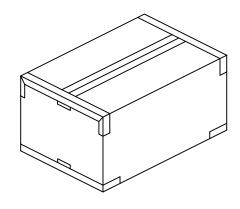
20 PCS/BAG

二. PACKING



1000PCS / CARTON

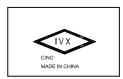
三. SEALING



SIDE



FRONT



UNITS: mm

APPROVED BY: Grant CHECKED BY: Jack DESIDNED BY: HXT

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp

SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp

SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核

- 1. 報告編號
- 2. 報告日期 (YYYY/MM/DD)
- 3. 產品名稱 (輸入前 10 個字不含空白)
- 4. 圖示檢查碼 (依指示畫面)



康捷電子有限公司									
塡表:	時麗								
部門:	研發部								
職務:	☆昌								

物料中HSF對象物質含量調查表

物料名稱: AN2400-4828RS

1/3/1 1	□ 1													
序號	物料型號	物料各構成名稱	各構成物	測試報告裡RoHS對應物質測試結果						₩ 10 M 10	대학 다 수를마.	洲是4夕40	測試機構	
			料的材質	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	檢測報告編號	測試日期	測試名稱	名稱	
1	AN48A-01B	Body1	TPEE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSZD001081200002C	2012.10.10	TPEE	СТІ	
2	AN4803-02B-1 AN57-12B-1	Body2 Body3	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	KA/2012/C1575	2013.01.02	ACRYLONITRILE	SGS	
3	AN01-1215-P-1	Hinge Pin	POM	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1302200003	2013.03.01	POM	SGS	
4	R-RG-178U			FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSHE001125120002C	2012.08.21	电线电缆料	СТІ
		Cable (RG178)	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSHE001125120001C	2012.08.21	电线电缆料	СТІ	
			鍍銀銅	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	RLSHE001125120003C	2012.08.21	电线电缆料	СТІ	
5	SMA804-CBR5A56	SMA Male Reverse	銅	19	33794	N.D.	Negative			CANEC1207370802	2012.06.13	C3604黃銅棒	SGS	
6	TUBE-452215 TUBE-452310	Tube	銅	19	33794	N.D.	Negative			CANEC1207370802	2012.06.13	C3604黃銅棒	SGS	
7	R-AN225010P	Stopper	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1303565401	2013.04.01	PTFE Rod	SGS	

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量

包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm,鎘的允許濃度爲5ppm

歐盟ROHS指令豁免條款2009/95/BC、钢中合金元素中的铅含量达0.35%、铝含量达0.4%、铜合金中的铅含量达4%