Product Name: Antenna



Specification For Approval

Date: 2015 / 03 / 05

File No.: 121128003

Version: 1.0

Customer: 佳世達

Customer P/N: /

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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Product Name: Antenna





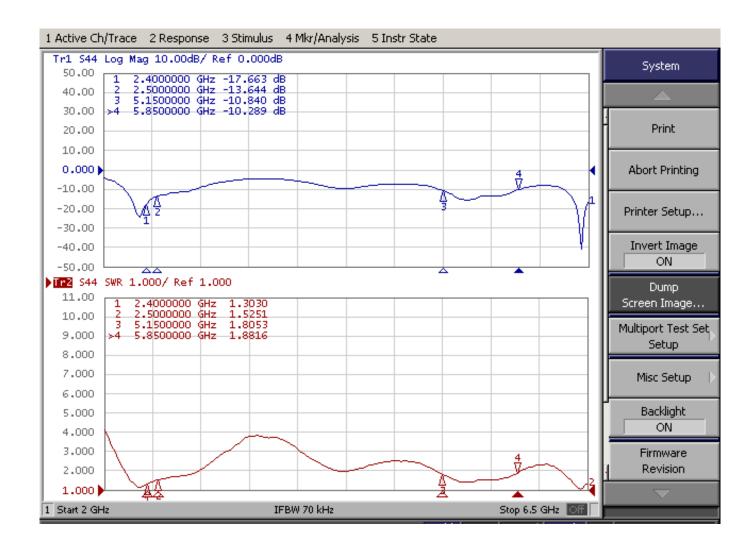
Test Items		Test Condition and Procedure	Requirements		
C1 S.W.R.		Set DUT on Network Analyzer; make individual	Directive DUT specification		
		calibration to test			
C2 Ant enna		Set DUT on Antenna Chamber; make individual	Directive DUT specification		
	Gain	calibration to test			
M1	Vibration	GB / 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 R	and 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 Li	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



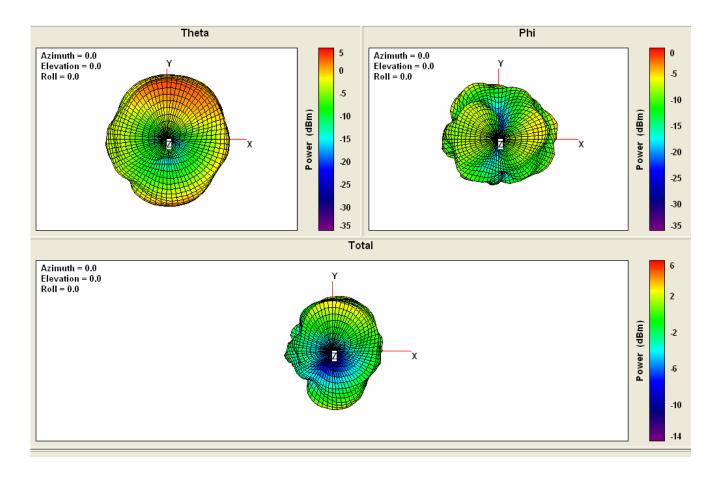


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4. Antenna - Radiation Pattern Test Data

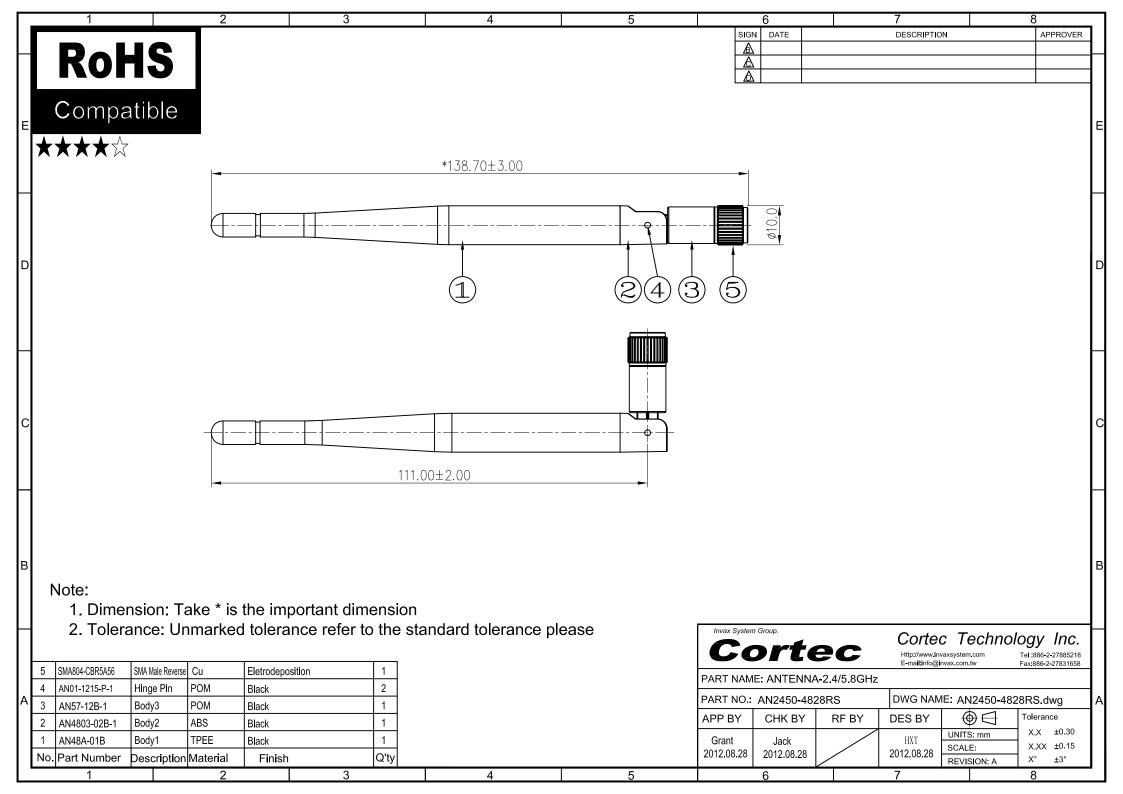




5. Mechanical Drawing See attached files

6. Material Description and RoHS Test Report See attached files

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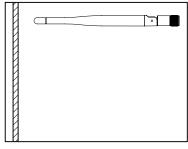
產品包裝規範 PACKING CRITERION



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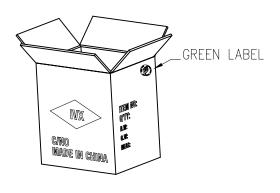
Part Number : AN2450-4828RS	Revision: A
Name: AP ANTENNA	Customer : ALL

- . WITH THE ANT INTO THE BAG



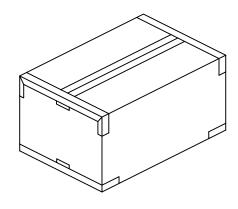
20 PCS/BAG

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

1/3/11	MH - 71112 100 102011												
序號	物料型號	物料各構成名稱	各構成物 料的材質	測試報告裡RoHS對應物質測試結果						公川は7 4.65時	마바디 수를 마다	測試名稱	測試機構
11,201				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	檢測報告編號	測試日期	例武 石件	名稱
1	AN48A-01B	Body1	TPEE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSZD001081200002C	2011.11.10	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/2011/C1889	2012.01.02	ACRYLONITRILE	SGS
3	AN01-1215-P-1	Hinge Pin	РОМ	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSZE001229340002	2012.04.05	POM	СТІ
	R-RG-178U	R-RG-178U Cable (RG178)	FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RLSHE001125120002C	2012.08.21	电线电缆料	СТІ
4			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	51	28156	N.D.	Negative			CANEC1112556702	2012.01.04	BRASS(IN CHINESE AS	SGS
6	TUBE-452215 TUBE-452310	Tube	銅	51	28156	N.D.	Negative			CANEC1112556702	2012.01.04	BRASS(IN CHINESE AS	SGS
7	R-AN225010P	Stopper	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1202323001	2012.03.21	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%