

Specification For Approval

Date: 2023 / 09 / 12

File No.: 230912006

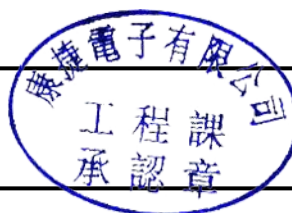
Version: 1.0

Customer : 優必闊科技股份有限公司

Customer P/N : /

INVAX P/N : DS0753-1053WNM

Description : Antenna



Cortec Checked By:

RD
2023.09.12
SF

Customer Approved By:



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1. Revision History

Revision	Date	Change Notification	Description
1.0	2023.09.12	初版	

Product Number: DS0753-1053WNM

Product Name: Antenna



2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	703 ~ 803 MHz
V.S.W.R.	≤ 1.8 @ 757 ~ 758 MHz
Peak Gain	3 ~ 4 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	RG316
Connector Type	N Plug
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Product Number: DS0753-1053WNM

Product Name: Antenna



3. Characteristics and Reliability Test

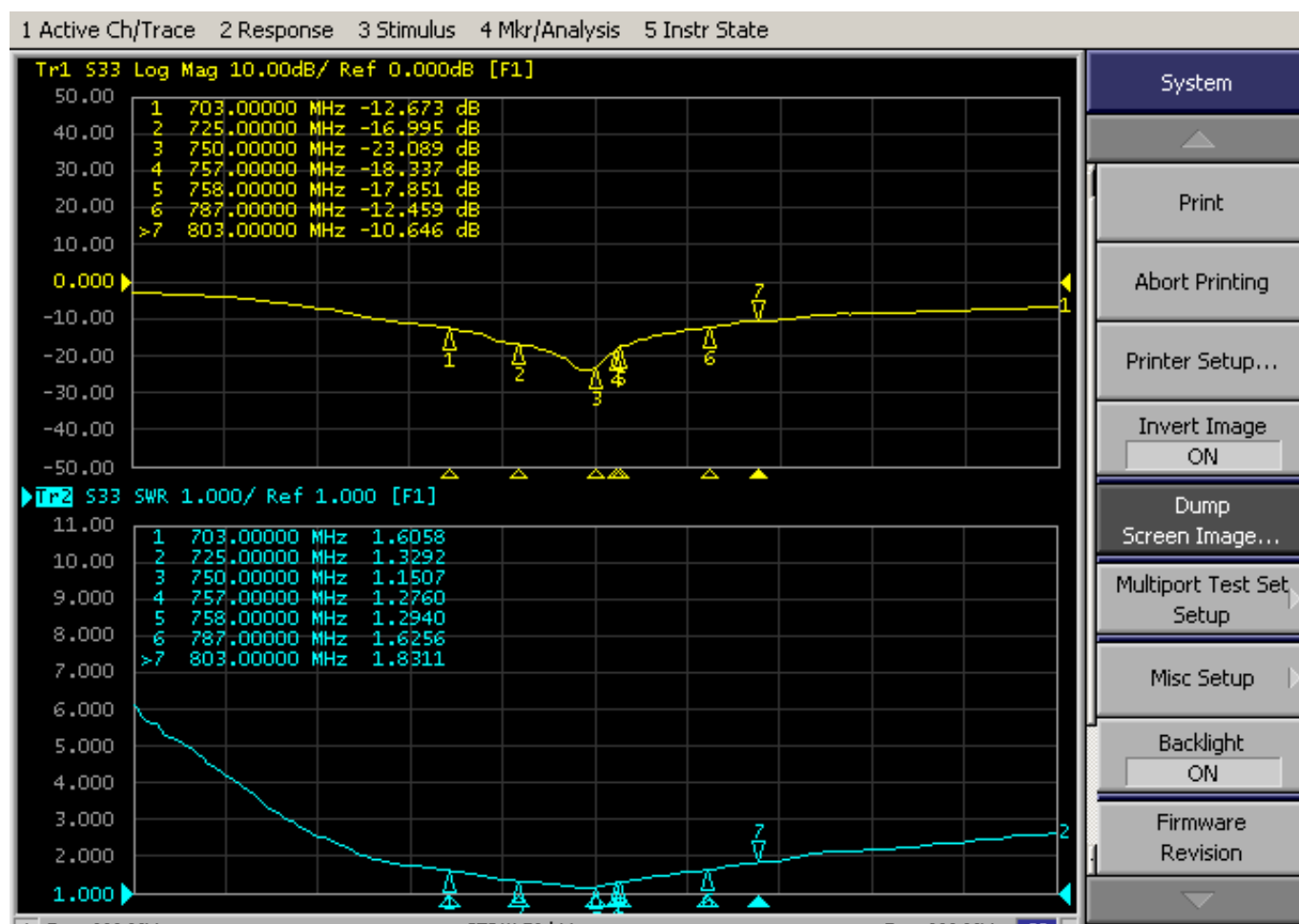
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 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 2015/863/EU

Product Number: DS0753-1053WNM

Product Name: Antenna



4. Antenna - S Parameter Test Data

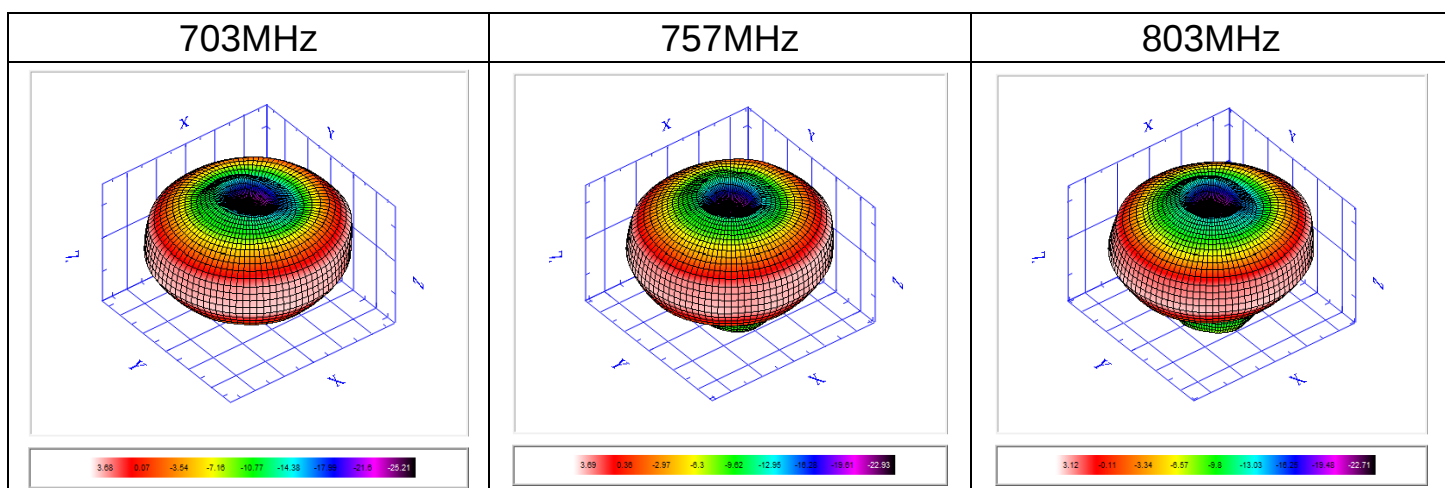
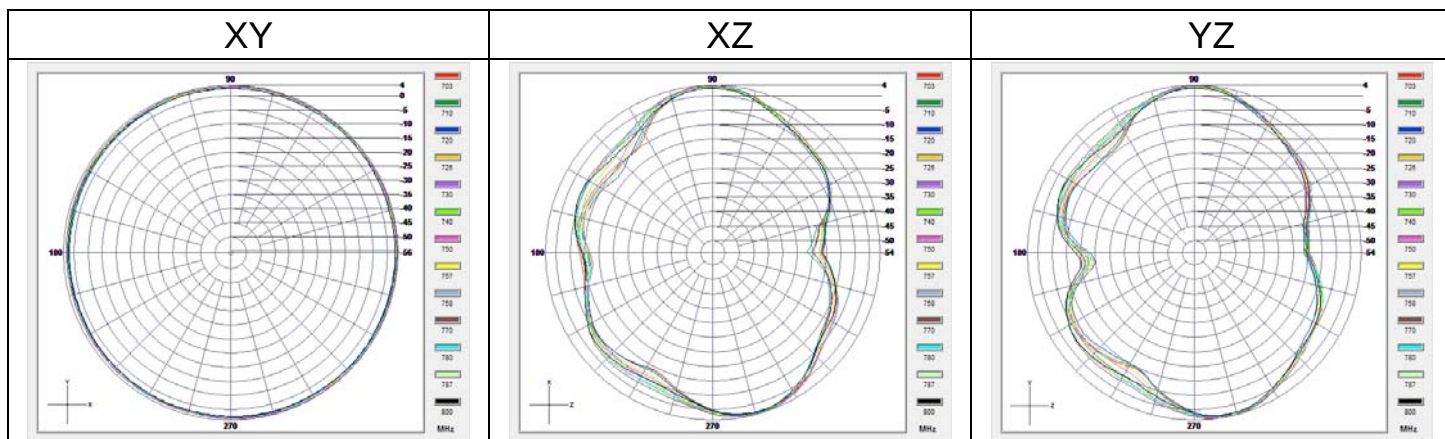


Product Number: DS0753-1053WNM

Product Name: Antenna

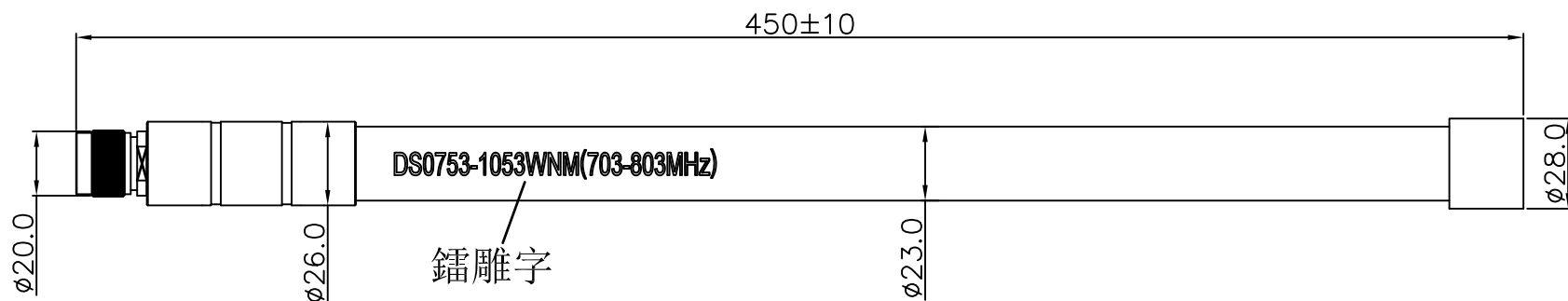


5. Antenna - Radiation Pattern Test Data



Frequency	703	710	720	725	730	740	750	757	758	770	780	787	800	803
E-Total Peak Gain (dBi)	3.68	3.47	3.12	3.61	3.83	3.56	3.78	3.69	3.69	3.83	3.2	3.22	3.26	3.12
Efficiency (%)	54.71	59.84	62.41	69.34	73.78	74.21	84.41	84.7	85.62	94.51	82.46	78.89	66.78	62.92

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



1. Mark * is important dimension;"CpK "Identify for process control($CpK \geq 1.33$).
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.

3	R-DS10-01A	Cap	C3604	Ni Pleated	1
2	DS10-415	Body	FR-PPR	White	1
1	00N001-CNT5DS07-23	N Male	C3604	Ni Pleated	1
No.	Part Number	Description	Material	Finish	

<i>Invox System Group.</i> 				Cortec Technology Inc. Http://www.invoxsystem.com E-mail:info@invox.com.tw				Tel:886-2-27885218 Fax:886-2-27831658	
TITLE: 703~803MHz Antenna									
PART NO.: DS0753-1053WNM					CUSTOMER P/N: /				
APP BY		CHK BY		RF BY		DES BY		 Tolerance	
SF		SF		SF		YANG		UNITS: mm SCALE: 1/1 REVISION: A	
2023/08/10		2023/08/10		2023/08/10		2023/08/10		X.X ±0.5 X.XX ±0.2 X° ±1	

Date: 2023/08/10

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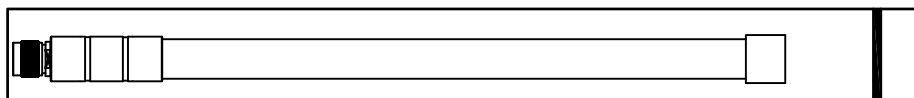
Part Number : DS0753-1053WNM

Revision : A

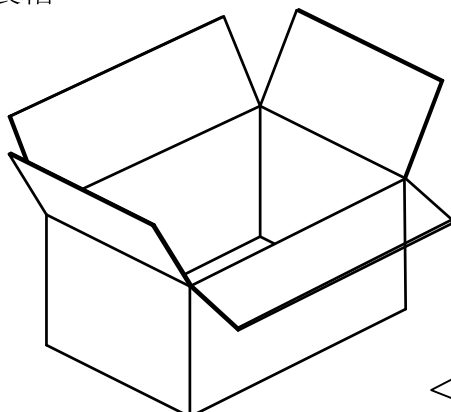
Name: Antenna

Customer : ALL

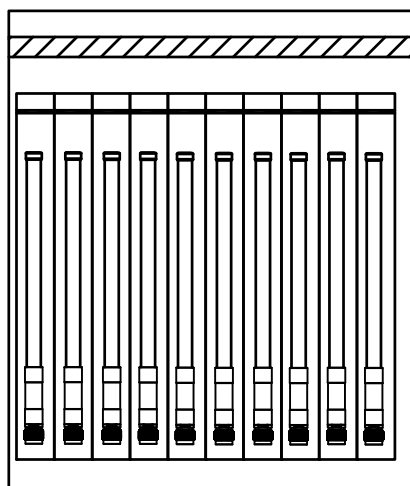
1. 1pcs產品裝入1pcs PE袋。



2. 裝箱。

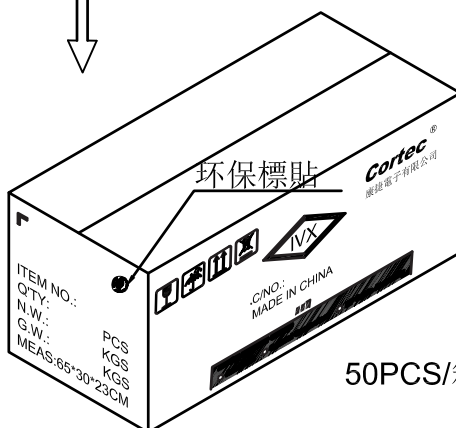
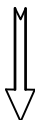


紙箱放5層產品，每層各放
1PCS气泡袋，剩餘空間和尾箱
用气泡袋填充滿



裝入PE袋

3. 封箱。



50PCS/箱

APPROVED BY : GrantCHECKED BY : SFDESIGNED BY : YANG

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

COR/F-G-47a

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)



物料中HSF對象物質含量調查表

康捷電子有限公司	
填表：	時麗
部門：	研發部
職務：	文員

物料名稱：DS0753-1053WNM

序號	物料型號	物料各構成名稱	各構成物料的材料	測試報告裡RoHS對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	00N001-CNT5DS07-23	N Male	銅	23	29211	N.D.	N.D.							CANPC23003365015	2023.05.29	黃銅棒C3604	SGS
2			鎳	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC23001825404	2023.08.11	環保鎳藥水	SGS
3			鍍金	N.D.	10	N.D.	N.D.							SZXEC23001825401	2023.08.11	鍍金	SGS
4		Insulator	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2220455368101001	2022.10.15	PTFE	CTI
5	R-DS10-01A	CAP	銅	23	29211	N.D.	N.D.							CANPC23003365015	2023.05.29	黃銅棒C3604	SGS
6			鎳	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC23001825404	2023.08.11	環保鎳藥水	SGS
7	DS10-415	Body	玻璃纖維管	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2212575303	2022.06.20	玻璃鋼管	SGS
8	/	Tube	銅	N.D.	40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2220161101	2022.09.23	ppy to H65(C2680,C270	SGS
9	/	Heat	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2225190701	2022.12.01	HEAT SHRINKABLE TUBING	SGS
10	/	Foam	EVA	N.D.	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2227574117	2023.01.03	Environmental protectio	SGS
11	RG316	線材	FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBMR23000169901	2023.02.06	FLUORINATED ETHYLENE	SGS
12			PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CKGEC2300120401	2023.02.28	聚四氟乙烯分散樹脂	SGS
13			鍍銀銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SHAEC2217007511	2022.12.15	SILVER-COATED	SGS
14			鍍錫銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2220469900101001	2022.10.25	TIN PLATING ROUND	CTI

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，鎘的允許濃度為5ppm

歐盟ROHS指令豁免條款2015/863/EU、鋼中合金元素中的鉛含量達0.35%、鋁含量達0.4%、銅合金中的鉛含量達4%