

Index:

- 1. Revision History / Page 3**
- 2. Specification / Page 4**
- 3. Characteristics and Reliability Test / Page 5**
- 4. Antenna - S Parameter Test Data / Page 6**
- 5. Antenna - Radiation Pattern Test Data / Page 7**
- 6. Mechanical and Packing Drawing / Page 8 ~ 9**
- 7. Material Description and RoHS Test Report / Page 10 ~ end**



1. Revision History

Revision	Date	Change Notification	Description
1.0	2023.12.01	初版	

Product Number: AN2450-5506RS-01

Product Name: Antenna



2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz 5150 ~ 5850 MHz
V.S.W.R.	≤ 2.0 @ 2400 ~ 2500 MHz ≤ 2.5 @ 5150 ~ 5850 MHz The data is tested with 1M cable
Peak Gain	3.27 dBi @ 2400 ~ 2500 MHz 4.47 dBi @ 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	TPEE / ABS / POM
Cable Type	RG-178
Connector Type	SMA Male Reverse
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

Product Number: AN2450-5506RS-01

Product Name: Antenna



3. Characteristics and Reliability Test

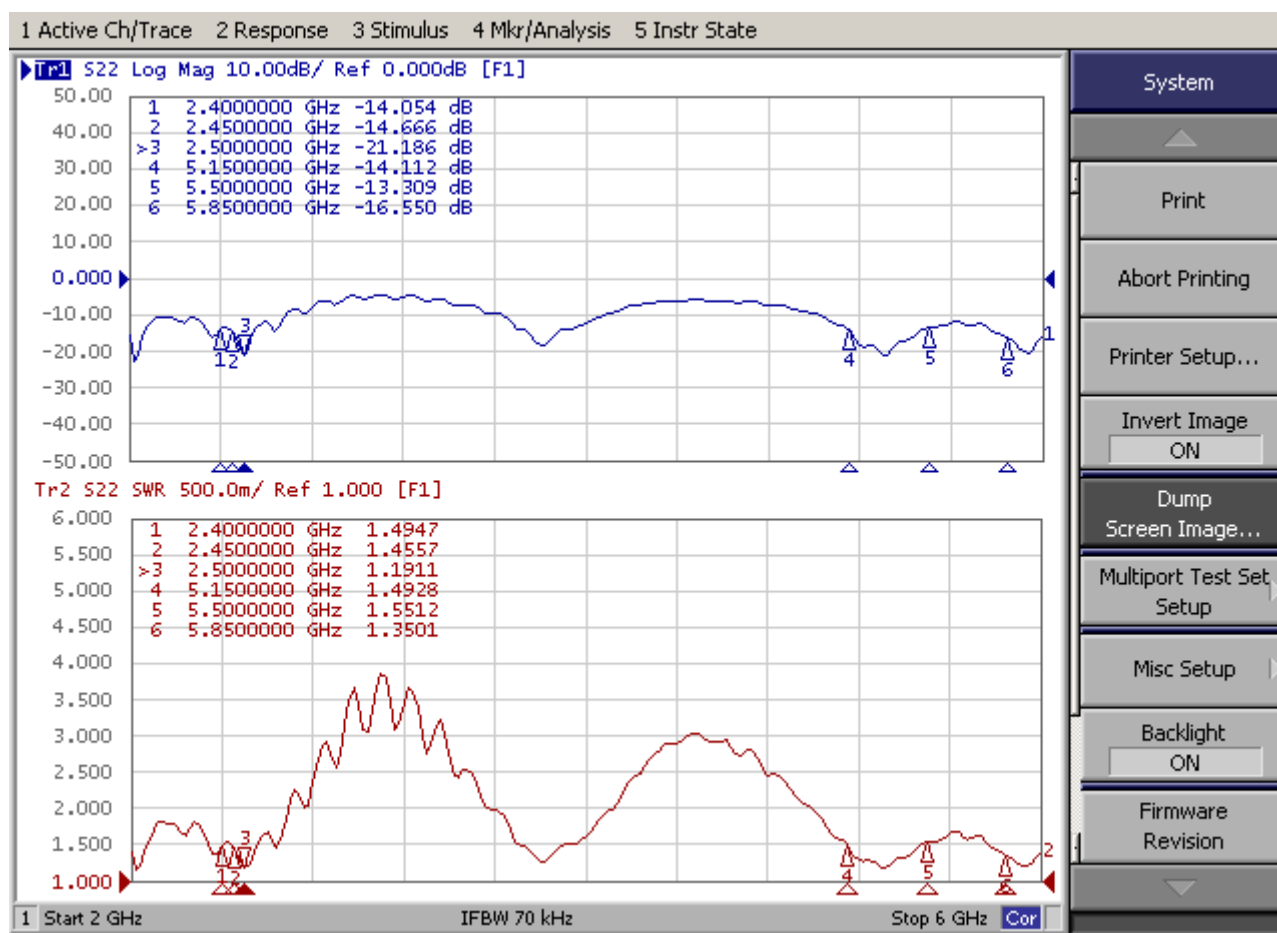
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: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

Product Number: AN2450-5506RS-01

Product Name: Antenna



4. Antenna - S Parameter Test Data

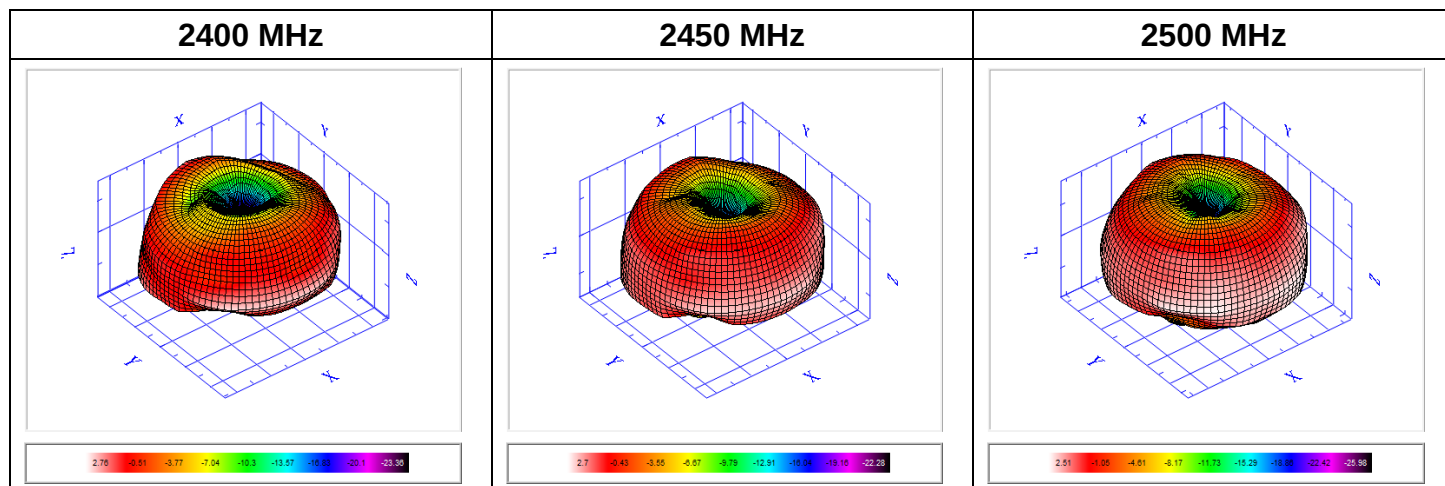


Product Number: AN2450-5506RS-01

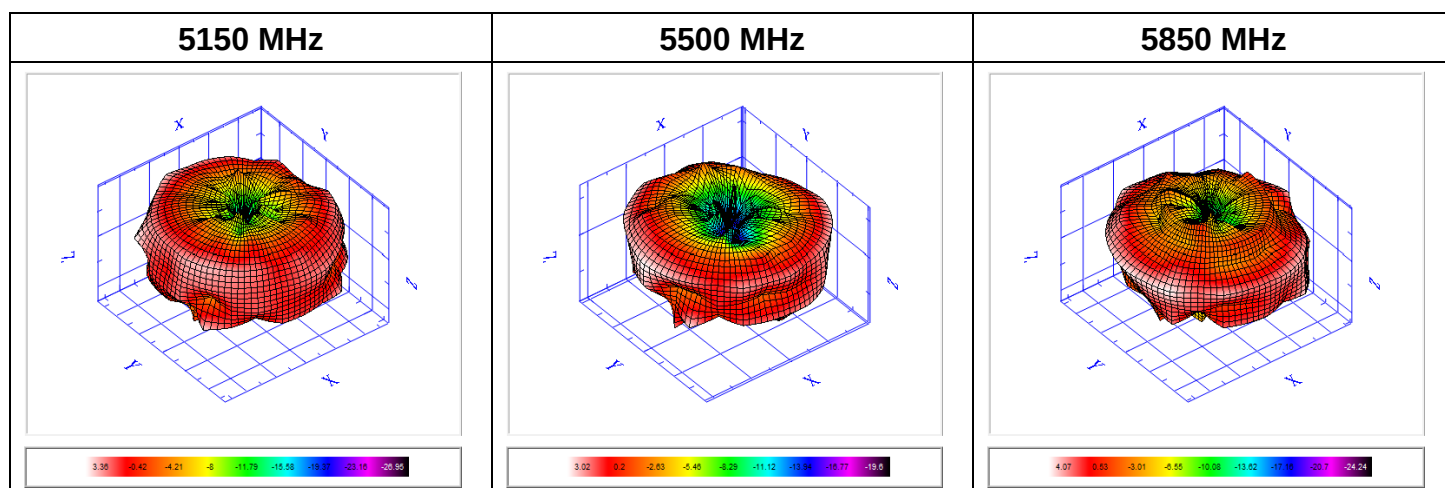
Product Name: Antenna



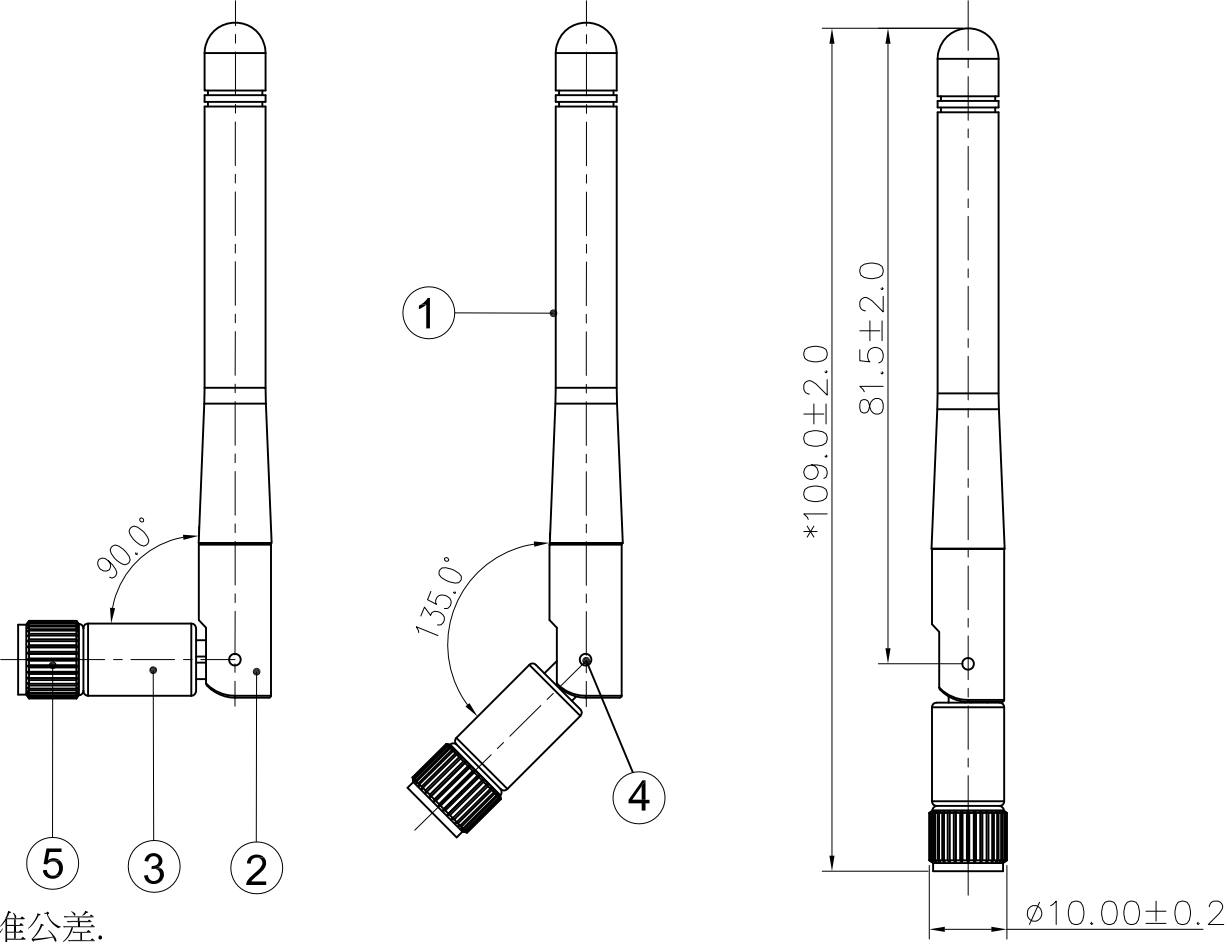
5. Antenna - Radiation Pattern Test Data



Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	2.76	2.6	3.1	3.27	3.13	2.7	2.5	2.63	2.76	2.55	2.51
Efficiency (%)	65.2	66.2	73.01	74.28	74.56	69.79	69.73	72.48	77.18	75.73	77.19
Average Gain (dB)	-1.86	-1.79	-1.37	-1.29	-1.28	-1.56	-1.57	-1.4	-1.13	-1.21	-1.12



Frequency	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
E-Total Peak Gain (dBi)	3.36	3.69	4.47	4.03	3.98	2.67	3.93	3.02	3.34	2.94	2.95	3.3	4.47	4.15	4.07
Efficiency (%)	64.96	61.19	67.14	73.07	72.85	62.69	63.58	66.1	62.56	58.55	52.36	58.81	86.84	67.62	79.72
Average Gain (dB)	-1.87	-2.13	-1.73	-1.36	-1.38	-2.03	-1.97	-1.8	-2.04	-2.32	-2.81	-2.31	-0.61	-1.7	-0.98

1	2	3	4	5	6	7	8																																				
HF☐ RoHS☒ REACH☐ CONFIDENTIAL 2					<table><tr><td>SIGN</td><td>DATE</td><td>DESCRIPTION</td><td>APPROVER</td></tr><tr><td>△</td><td></td><td></td><td></td></tr><tr><td>△</td><td></td><td></td><td></td></tr><tr><td>△</td><td></td><td></td><td></td></tr></table>			SIGN	DATE	DESCRIPTION	APPROVER	△				△				△																							
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B	備注： 1.未標注公差參照標準公差。 2.帶* 尺寸為重點尺寸。 3.膠芯為耐高溫膠芯						B																																				
A	<table><tr><td>5</td><td>SMA807-CCR5A56</td><td>SMA Male Reverse</td><td>Cu</td><td>Eletrodeposition</td><td>1</td></tr><tr><td>4</td><td>RVT-AN55-10PB</td><td>Hinge Pin</td><td>POM</td><td>Black</td><td>2</td></tr><tr><td>3</td><td>BODY1-AN57-01B</td><td>Body3</td><td>ABS</td><td>Black</td><td>1</td></tr><tr><td>2</td><td>HINGE-AN57-15B</td><td>Body2</td><td>ABS</td><td>Black</td><td>1</td></tr><tr><td>1</td><td>BODY-AN55-01B</td><td>Body1</td><td>TPEE</td><td>Black</td><td>1</td></tr><tr><td>NO.</td><td>Part Number</td><td>Description</td><td>Material</td><td>Finish</td><td>Q'ty</td></tr></table>						5	SMA807-CCR5A56	SMA Male Reverse	Cu	Eletrodeposition	1	4	RVT-AN55-10PB	Hinge Pin	POM	Black	2	3	BODY1-AN57-01B	Body3	ABS	Black	1	2	HINGE-AN57-15B	Body2	ABS	Black	1	1	BODY-AN55-01B	Body1	TPEE	Black	1	NO.	Part Number	Description	Material	Finish	Q'ty	A
5	SMA807-CCR5A56	SMA Male Reverse	Cu	Eletrodeposition	1																																						
4	RVT-AN55-10PB	Hinge Pin	POM	Black	2																																						
3	BODY1-AN57-01B	Body3	ABS	Black	1																																						
2	HINGE-AN57-15B	Body2	ABS	Black	1																																						
1	BODY-AN55-01B	Body1	TPEE	Black	1																																						
NO.	Part Number	Description	Material	Finish	Q'ty																																						
1	2	3	4	5	6	7	8																																				

Invax System Group.

Cortec

Cortec Technology Inc.

Http://www.invaxsystem.com

E-mail:info@invax.com.tw

Tel :886-2-27885218

Fax:886-2-27831658

TITLE: Antenna

PART NO.: AN2450-5506RS-01

CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY		Tolerance
SF	YS		LISA	UNITS: mm	X.X ±0.5
2023.12.01	2023.12.01		2023.12.01	SCALE: 1/1	X.XX ±0.1
				REVISION: A	X° ±1

Date: 2023.12.01

Page: 1 of 1

Part Number : AN2450-5506RS-01

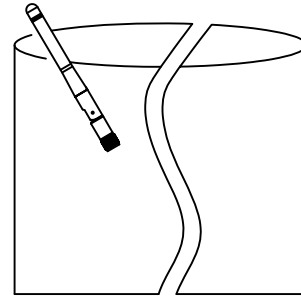
Revision : A

Name: AP Antenna

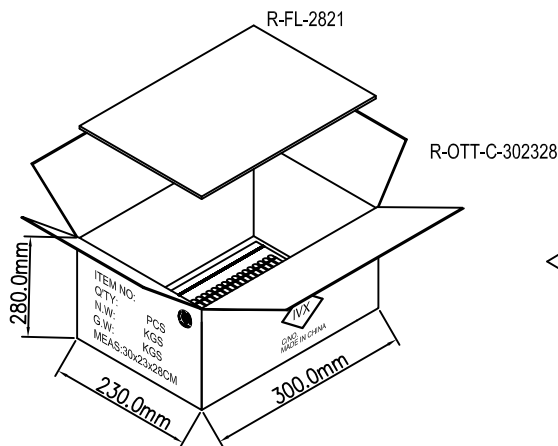
Customer : ALL



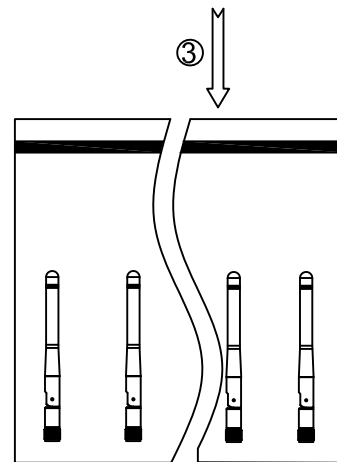
Step1. 清潔表面



Step2. 每個夾鏈袋裝50PCS產品。R-NIP-BAG-150170-1



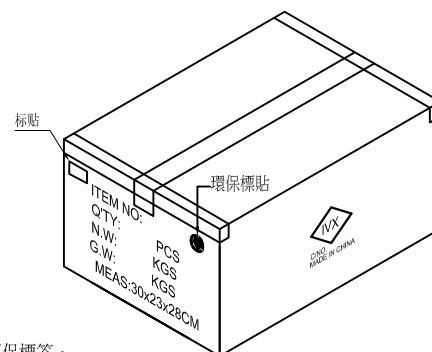
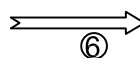
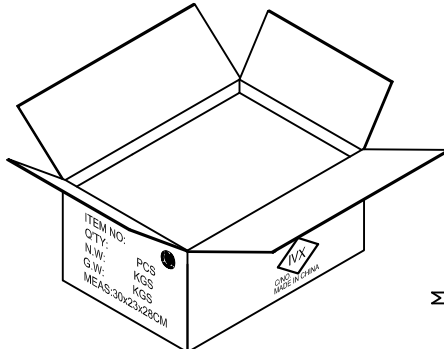
Step4. 共放5层，每层200PCS，以隔板相隔。



Step3. 確認數量為50PCS封口。



Step5. 確認數量為1000PCS。



Step6. 外箱側麥右上角貼一張環保標籤。
須填寫產品品號/數量/淨重/毛重,或以實際重量填寫,
未裝滿空间和尾數箱請用合適箱替代并用填充物填滿。
標貼依客戶要求由業助提供。

APPROVED BY : SFCHECKED BY : YSDESIGNED BY : LISA

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：AN2450-5506RS-01

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RoHS2.0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	BODY-AN55-01B	Body1	TPEE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC23000634202	2023.03.13	TPEE	SGS
2	HIGNG-AN57-15B	Body2	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC23001081805	2023.03.24	HP171 NP	SGS
3	BODY1-AN57-01B	Body3	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC23001081805	2023.03.24	HP171 NP	SGS
4	RVT-AN55-10PB	Hinge Pin	POM	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	EKR23B01035M01	2023.11.22	台塑鋼	SGS
5	SMA807-CCR5A56	SMA Male Reverse	銅	23	29211	N.D.	N.D.							CANPC23003365015	2023.05.29	黃銅棒C3604	SGS
6	ASM-TUBE-452310 ASM-TUBE-452218	Tube	銅	N.D.	23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC23009815201	2023.09.19	Apply to H65(C2680,C2700	SGS
7	R-HSUBE-006T	HSTUBE	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
8	R-RG-178B	Cable (RG178)	FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBPC23000512404	2023.03.03	聚全氟乙丙稀透明料	SGS
9			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
10			鍍銀銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC23000141402	2023.02.13	鍍銀銅	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%