



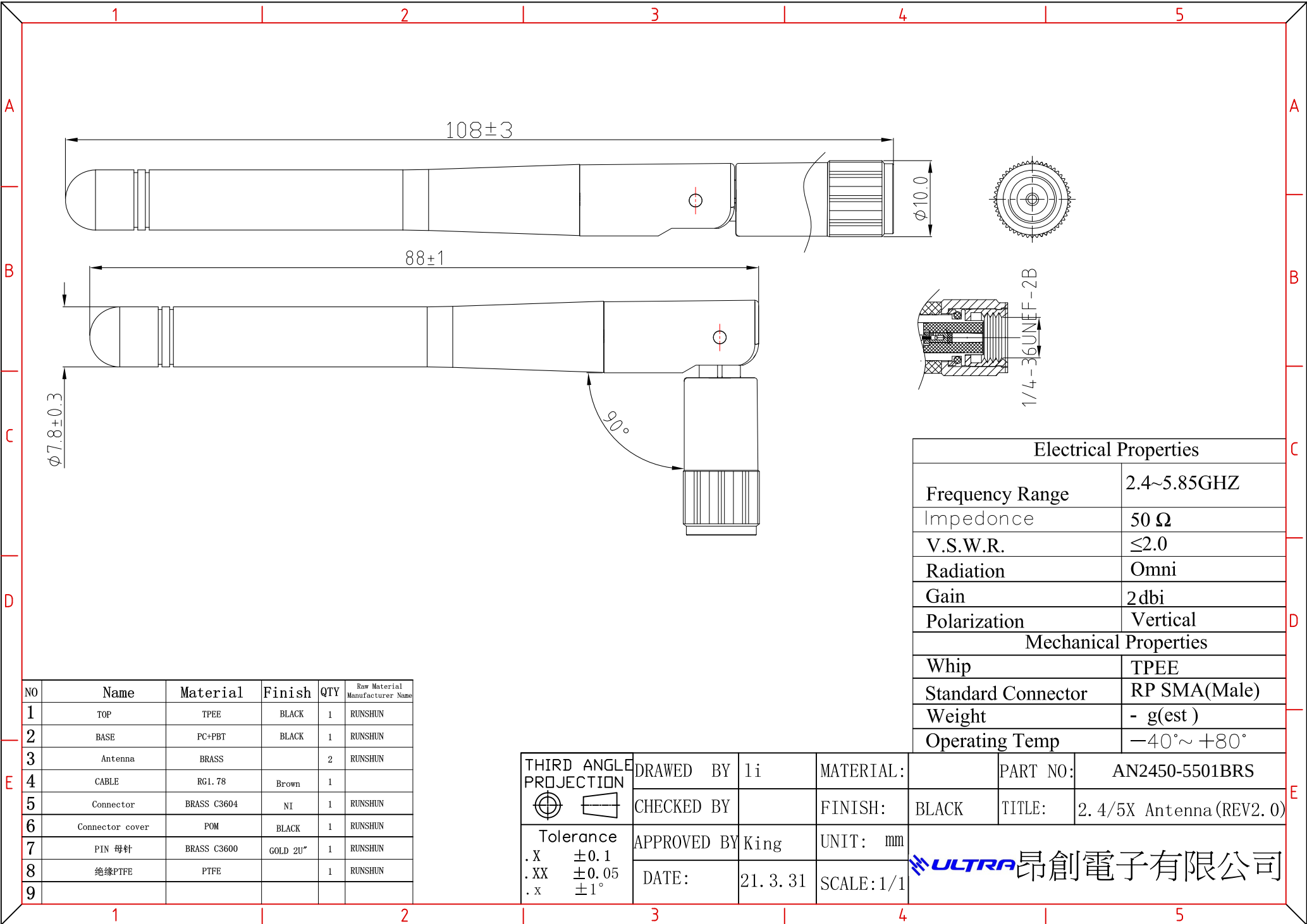
產品規格

Overview of product specification

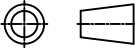
Electrical properties	
Frequency	2.4~2.5GHZ 5.1~5.85Ghz
Impedance	50 ohm Nominal
Return Loss	-10 dBi
VSWR Port 1&2	2.0:1 MAX
Gain	2.4GHz : 2.3dBi ;5GHz : 3.0dBi
Connector	RP-SMA Male
Cable length	RG178 CABLE
cable loss	1.7dB/M~1GHZ 2.42dB/M~2GHz 3.08dB/M~3GHz 3.63dB/M~4GHz 4.15db/M~5GHz 4.8db/M~6GHz
Mechanical Properties	
Housing	UV Resistant TPEE
Operating Temp	-40°C to +80°C
Color	Black

產品照片
Product Photos

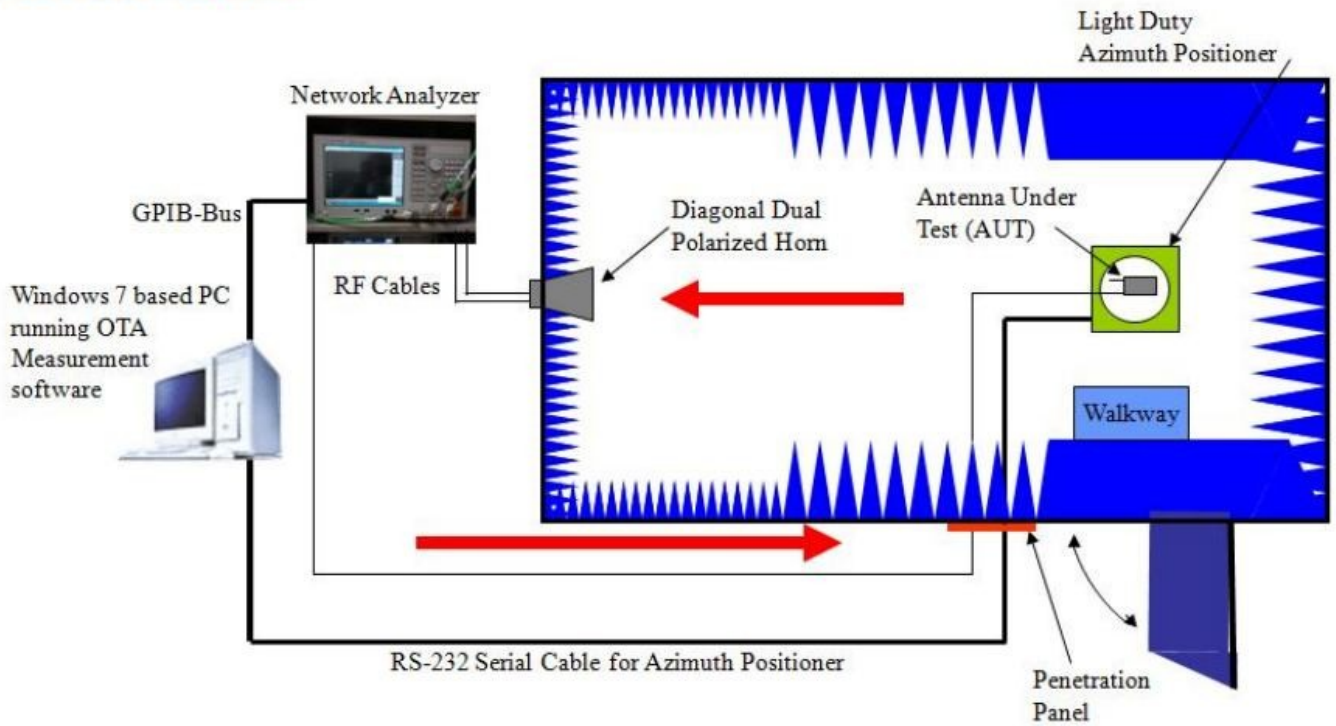




Electrical Properties	
Frequency Range	2.4~5.85GHZ
Impedance	50 Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2dbi
Polarization	Vertical
Mechanical Properties	
Whip	TPEE
Standard Connector	RP SMA(Male)
Weight	- g(est)
Operating Temp	−40°~ +80°

THIRD ANGLE PROJECTION 	DRAWN BY	li	MATERIAL:		PART NO:	AN2450-5501BRS
	CHECKED BY		FINISH:	BLACK	TITLE:	2. 4/5X Antenna (REV2. 0)
	APPROVED BY	King	UNIT:	mm	 昂創電子有限公司	
Tolerance . X ±0.1 . XX ±0.05 . x ±1°	DATE:	21. 3. 31	SCALE:	1/1		

Passive mode

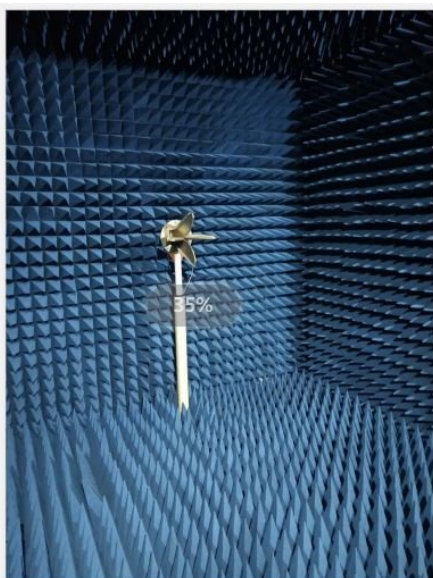


TEST INSTRUMENT :

1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

Anechoic Chamber External Dimensions

(L x W x H): 8m x 4m x 4m

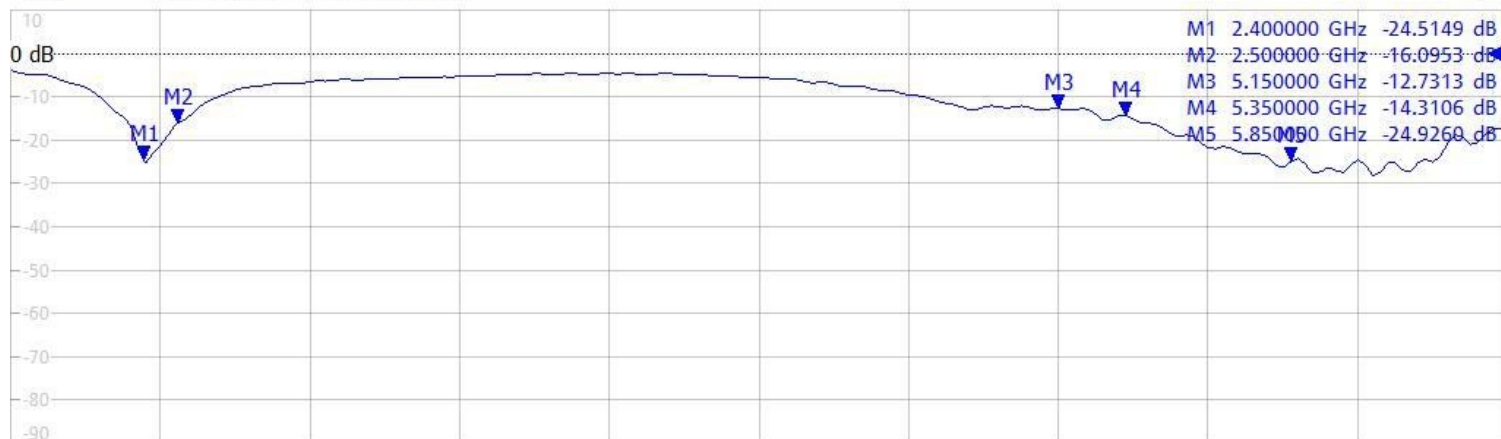


VSWR

12/22/2020 8:44:39 AM
1328.5170K92-101595-Kd

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1



Ch1 Start 2 GHz

Pwr -10 dBm Bw 10 kHz

Stop 6.5 GHz

Trc2 — S11 SWR 1 U/ Ref 1 U Cal

2

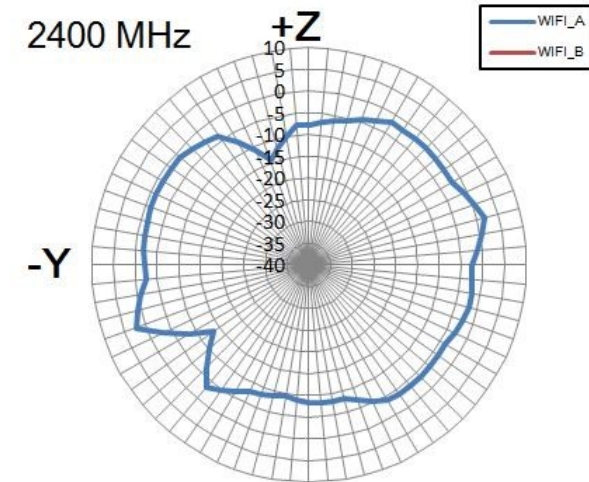
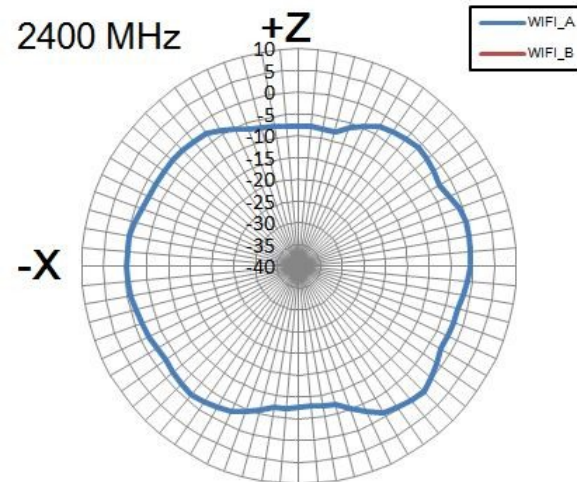
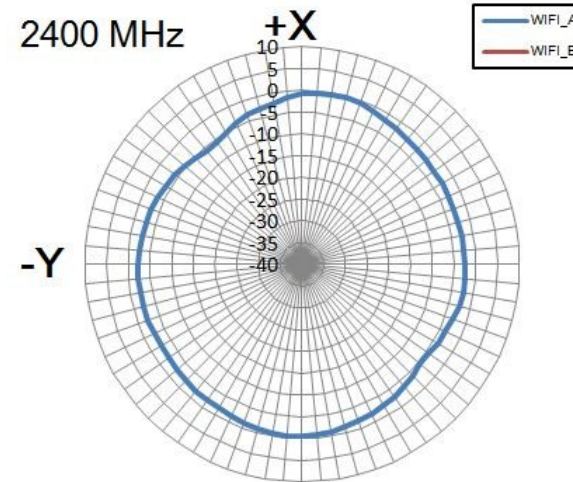


Ch1 Start 2 GHz

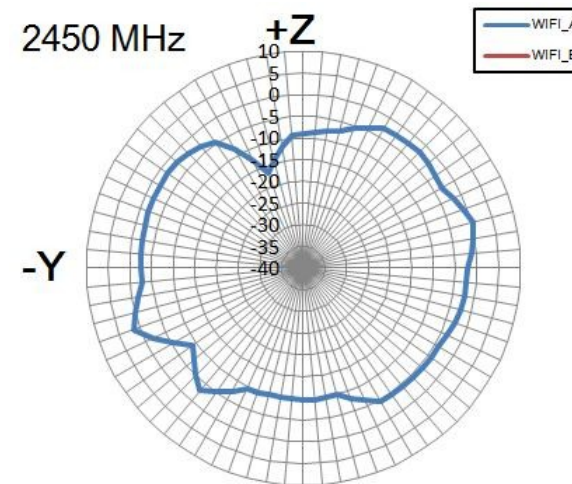
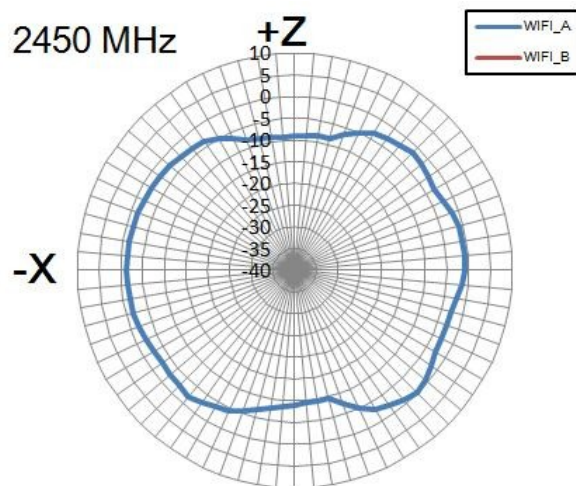
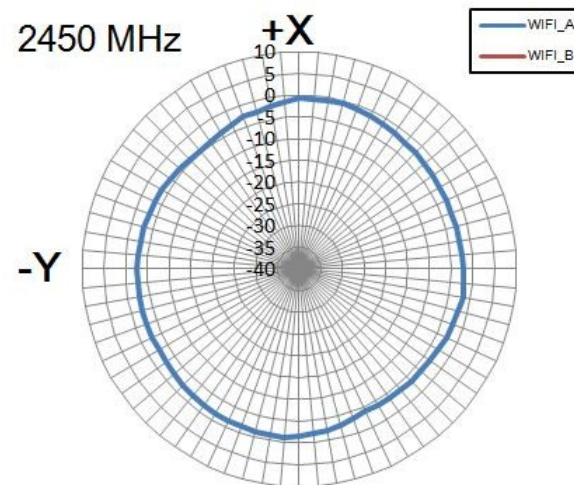
Pwr -10 dBm Bw 10 kHz

Stop 6.5 GHz

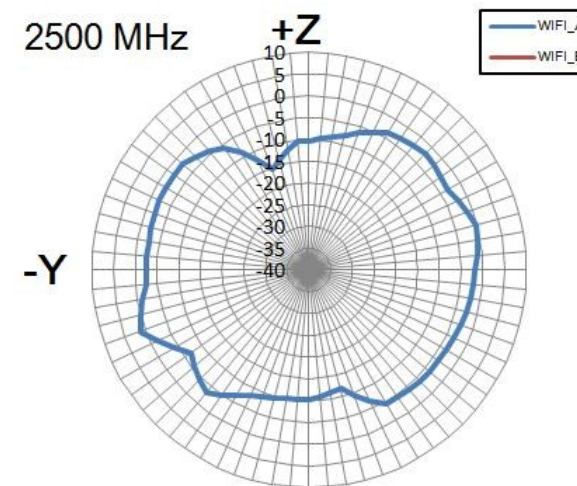
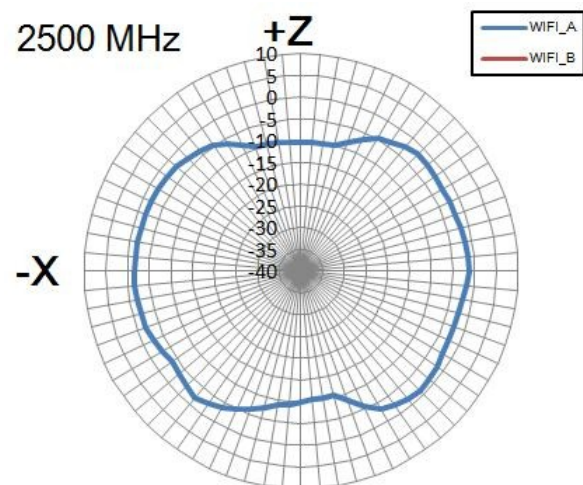
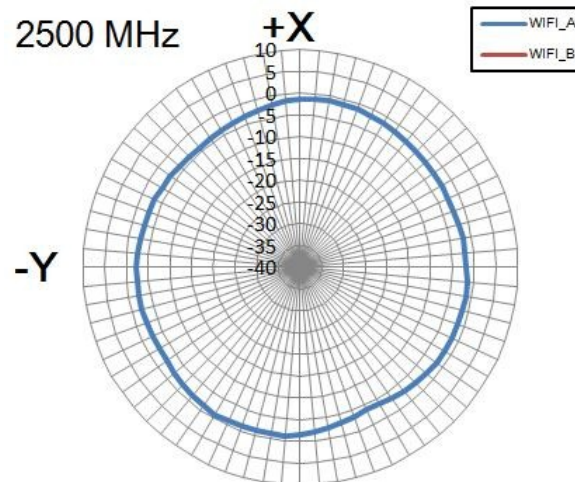
2400



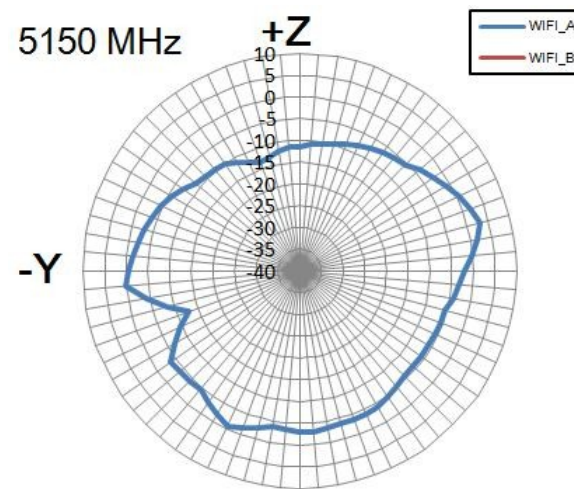
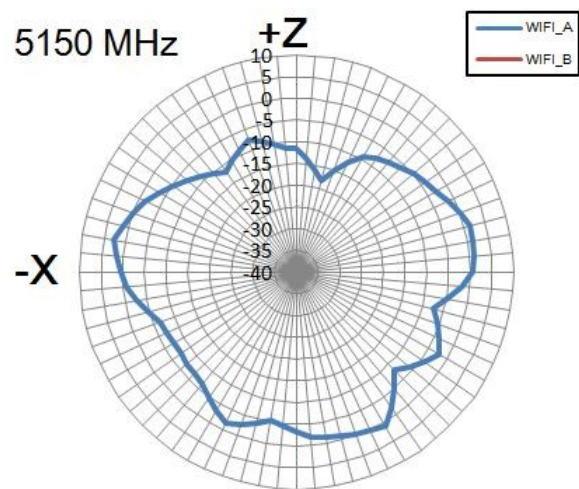
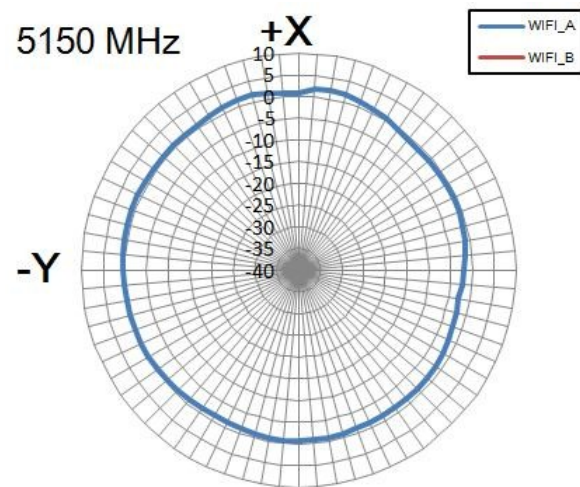
2450



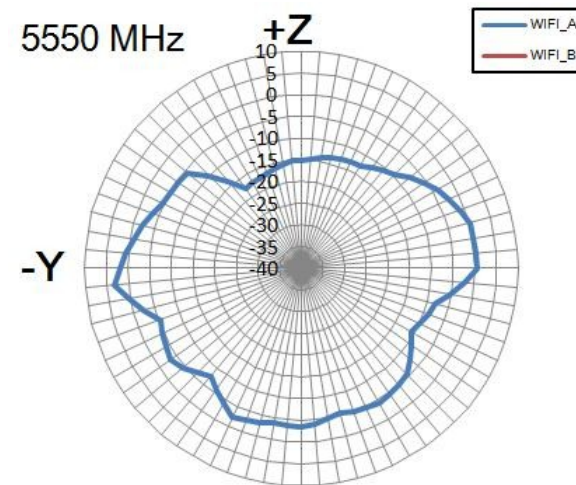
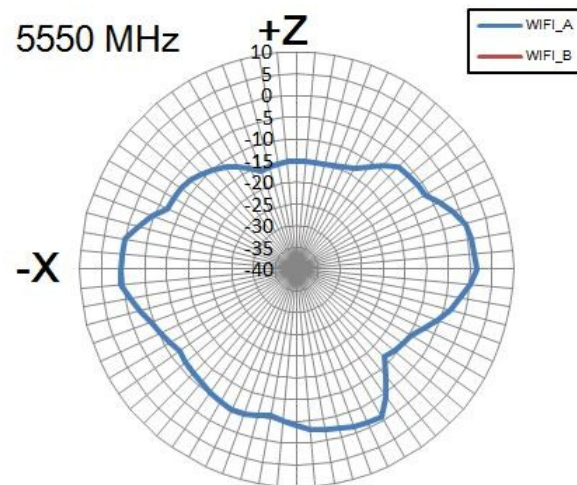
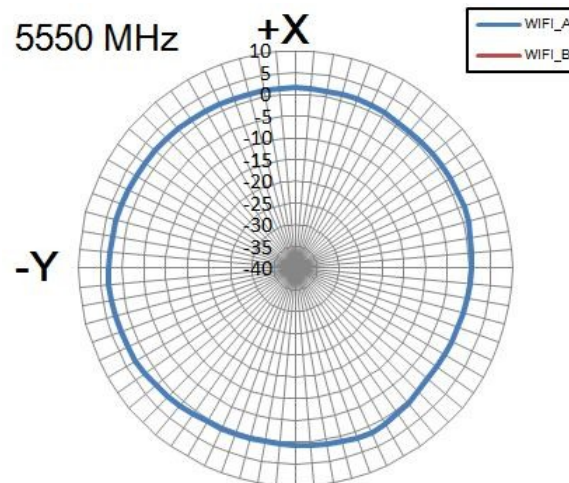
2500



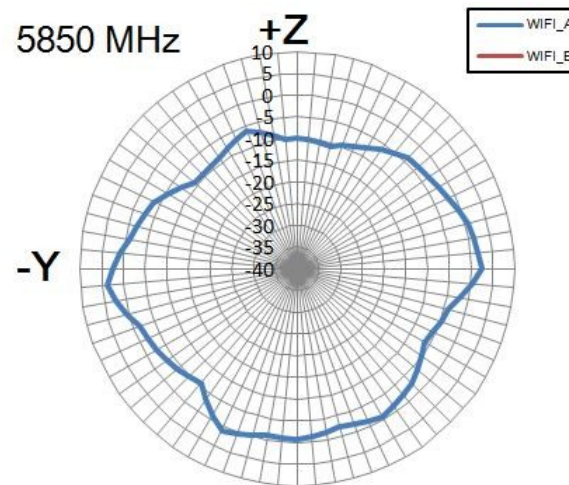
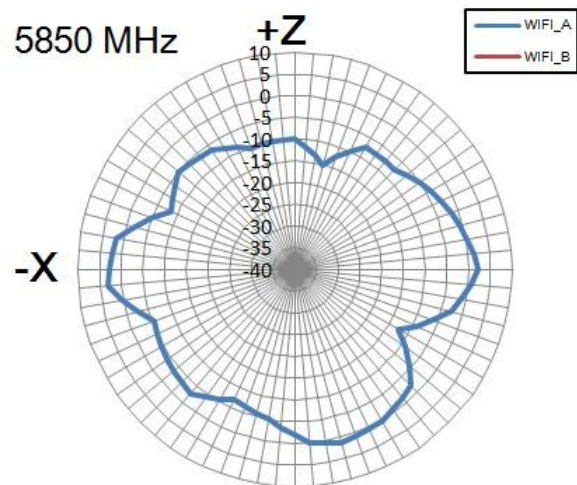
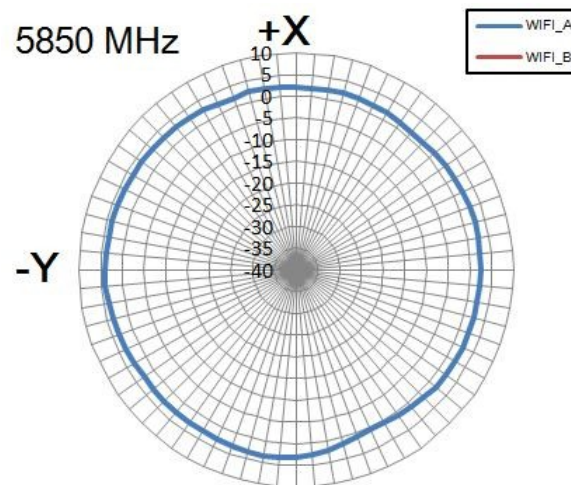
5150



5550



5850





Frequency	Gain	Efficiency
2.4GHZ	2.2dBi	82.9%
2.45GHz	2.3dBi	83.9%
2.5GHz	1.9dBi	78.1%
5.1GHz	2.5dBi	86.7%
5.8GHz	3dBi	92.4%

Angtron Electronics Co., LTD

10 Shijie Tongren Street, Shijie Town, Dongguan City, Guangdong Province

Specification For Approval

Date: 2019 / 03 / 13

File No.: 190313002

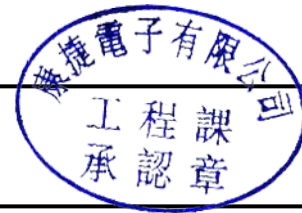
Version: 1.0

Customer : 冠宇國際電子股份有限公司

Customer P/N : /

INVAX P/N : SMASFR8-3150B-00X00R

Description : Coaxial Cable



Cortec Checked By:	RD 2019.03.13 LHC
Customer Approved By:	



INVAX System Technology Corp.
4F. No. 815.Chung Hsiao East Rd.,Sec.5
Taipei, TAIWAN

TEL:886-2-2788-5218 FAX:886-2-2783-1658
<http://www.invaxsystem.com>



Cortec Technology Inc.
Xian-Xi Industrial, Sha-Tou Administration Zone,
Chang-An Town, Dong-Guan City, Guangdong
Province, China

TEL:86-769-85388261 FAX:86-769-85317869
<http://www.cortec.com.cn>

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- 2. Specification / Page 4**
- 3. Characteristics and Reliability Test / Page 5**
- 4. Mechanical and Packing Drawing / Page 6 ~ 7**
- 5. Material Description and RoHS Test Report / Page 8**

Product Number: SMASFR8-3150B-00X00R

Product Name: Coaxial Cable



1. Revision History

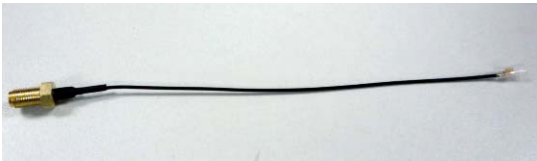
Revision	Date	Change Notification	Description
1.0	2019.03.13	初版	

Product Number: SMASFR8-3150B-00X00R

Product Name: Coaxial Cable



2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	DC~ 6 GHz
Impedance	50 Ohm
V.S.W.R.	≤ 2.0
Insertion Loss	≥ -2.5 dB
Voltage (breakdown)	> 500 V
Insulation Resistance	≥ 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	≥ 1 Kg
Mating Cycles	> 500
C. Environmental	
Operation Temperature	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Storage Temperature	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Product Number: SMASFR8-3150B-00X00R

Product Name: Coaxial Cable



3. Characteristics and Reliability Test

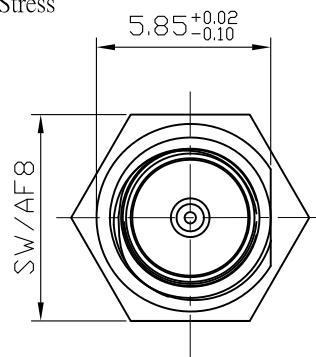
Test Items 測試項目		Test Condition and Procedure 測試方法	Requirements 要求	Result 結果
C1	V.S.W.R. 電壓駐波比	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
C2	Insertion Loss 插入損失	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
M4	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .單獨定義產品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待測物規範;頻率偏移≤5%	PASS
M6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.檢查尺寸,顏色,材料,包裝,表面處理	Directive DUT specification 符合待測物規範	PASS
E2	Salt Spray 鹽霧	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 溫度 35°C ; 濕度≥95%;鹽水濃度≥5% ; 測試 24H	1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
E3	Temperature and Humidity Chamber 恒溫恒濕	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 溫度 80°C 測試 12H 轉-40°C 測試 12H; 濕度≥ 90% ; 時間 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢復 2H 後, 無明顯外觀不良;頻率偏移≤5%	PASS
E5	Aging test 老化	GB / T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 溫度 80°C , 測試 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart 參考 IEC 62321 測試流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 標準	PASS

RoHS

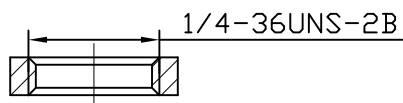
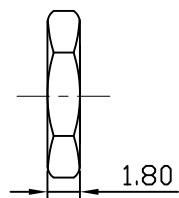
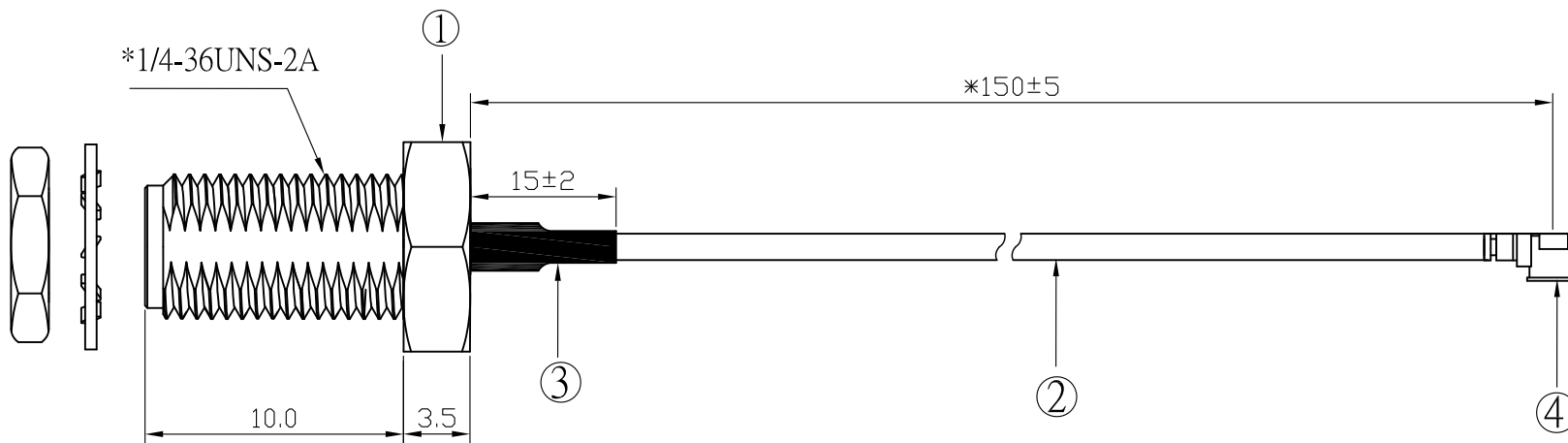
Compatible



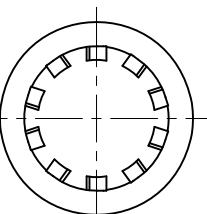
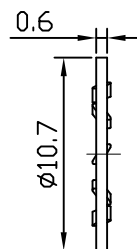
"*"Stress



*1/4-36UNS-2A



Nut



Washer

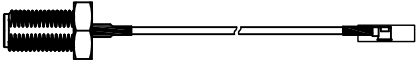
4	CR-113	Cu Au Plated	Mi ni Coaxial Connector	1
3	Shrink Tub	HT-36	Ø 3.0*15mm	1
2	Cable	O.D.1.13mm ; Color : Black	L=150mm	1
1	SMA	Cu Au Plated	180° Female Reverse	1
NO	Description	Material	Specification	Q'ty

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

Invax System Group.				Cortec Technology Inc.			
Cortec				Http://www.invaxsystem.com		Tel:886-2-27885218	
				E-mail:info@invax.com.tw		Fax:886-2-27831658	
TITLE: SMA / OD1.13mm / Mi ni Connector							
PART NO.: SMASFR8-3150B-00X00R				CUSTOMER P/N:			
APP BY	CHK BY	RF BY	DES BY			Tolerance	
Grant	Jack	Grnat	Lvybao	UNITS: mm		X.X	±0.5
				SCALE: 1/1		X.XX	±0.2
				REVISION: A		X°	±1°
2012.09.03	2012.09.03	2012.09.03	2012.09.03				

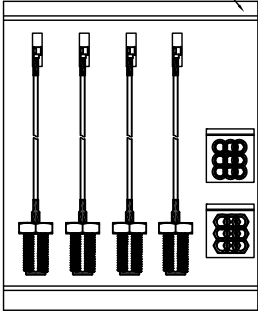
成品料號：SMASFR8-3150B-00X00R	版本：A
成品名稱：同轴线	客戶：

一



每1PCS產品用膠管包住端子

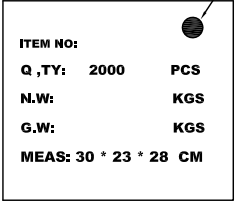
二



規格 150*170mm

三

側麥

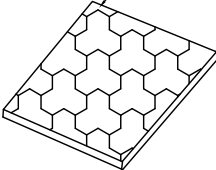


貼RoHs標籤

ITEM NO:
Q ,TY: 2000 PCS
N.W: KGS
G.W: KGS
MEAS: 30 * 23 * 28 CM

每50PCS產品裝入150*170mm夾鏈袋，
配件每50PCS分裝入50*70mm夾鏈袋。
並裝入產品袋中！

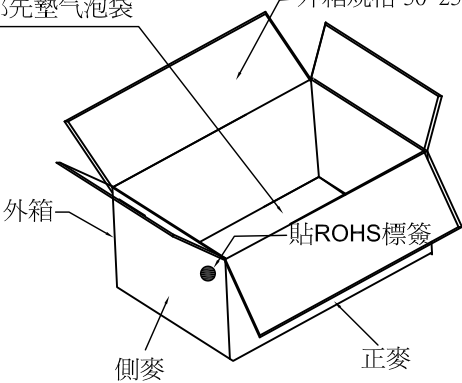
四



气泡袋 气泡袋規格 100cm*100cm

五

外箱底部先墊气泡袋



外箱規格 30*23*28CM

外箱

側麥

正麥

貼ROHS標籤

正麥

C/NO：以生管出貨資料粘貼

每箱裝2000PCS產品，包裝要規範整齊。

批准： Grant

確認： Jack

擬制： Lvybao

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：	李丹
部門：	研發部
職務：	文員

物料名稱：SMASFR8-3150B-00X00R

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	SMA	Body1	銅	35	31411	N.D.	N.D.							CANEC1809381105	2018.05.23	Brass Rod.	SGS
			鍍金層	N.D.	10	N.D.	N.D.							CANEC1726514307	2018.01.05	鍍金層	SGS
		Nut Center Pin	銅	35	31411	N.D.	N.D.							CANEC1809381105	2018.05.23	Brass Rod.	SGS
			鍍金	N.D.	10	N.D.	N.D.							CANEC1726514307	2018.01.05	鍍金層	SGS
		Washer	鐵	N.D.	N.D.	N.D.	Negative							DTI201807125400-2	2018.07.17	SWRCH1010	Dti
			鍍金	N.D.	10	N.D.	N.D.							CANEC1726514307	2018.01.05	鍍金層	SGS
		Insulator	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2180214299101002CR	2018.12.26	PTFE塑料制品	CTI
2	Shrink Tub	HSTUBE	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1901775804	2019.01.31	Heat shrinkable tube.	SGS
3	O.D.1.13mm	Cable	灰色色母	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SHAEC1804226817	2018.03.14	FEP Colormasterbatch	SGS
			FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBML1900152502	2019.01.16	聚全氟乙丙烯树脂.	SGS
			鍍錫銅	ND	11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2180042511101001C	2018.04.10	镀锡圆铜线	CTI
			鍍銀銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SHAEC1901381806	2019.01.29	镀银圆铜线	SGS
4	CR-113	Mini Connector	PBT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	KA201850624	2018.05.22	PBT	SGS
			銅	N.D.	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1900319410	2019.01.11	C5210 (QSn8-0.3).	SGS
			鍍金層	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	A2180247064101001	2018.12.18	金镀层	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%