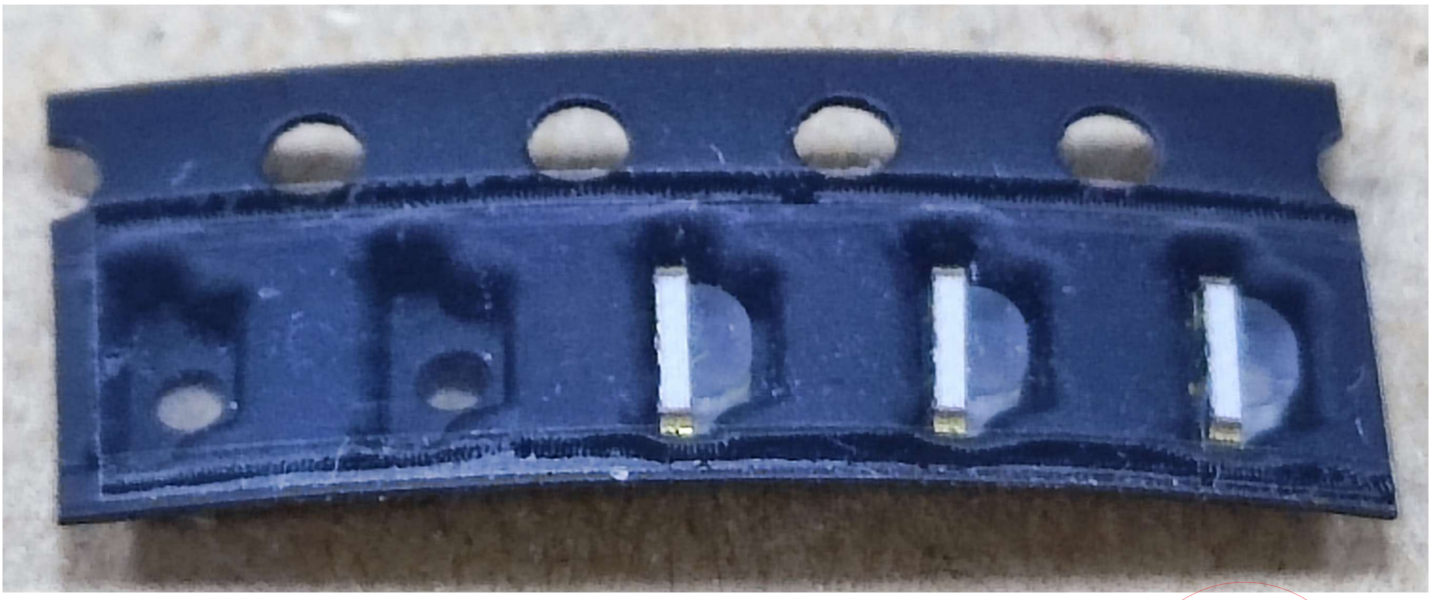


開發部
2023.08.04
發行
鈺邁科技開發股份有限公司

承　認　書

SPECIFICATION　FOR　APPROVAL

客 戶名 稱:　鈺緯科技開發股份有限公司

品　　名:　LED SMD 1204純綠+黃光雙色側發光 90°
請參考P11料帶包裝方式

早 安 料 號:　YS-1204YG14CI007-A

鈺 緯 料 號:　3DLEDGY16EY (D0161)

送樣日期：2023/08

負責業務：陳清木

公 司 名 稱 Company Title	早 安 股 份 有 限 公 司 www.ystone.com.tw		
地　　址 Address	112 台北市北投區大業路 166 號 10 樓		
電　　話 Telephone	(02)2896-4567	傳　　真 FAX　NO.	(02)2896-4566

承認簽章：　　日期：　　年　　月　　日

檢　查 TESTED　BY	核　對 CHECKED　BY	承　認 APPROVED　BY
		開發部 2023.08.04 發行

Specifications for Approval

Customer Part No.: 3DLEDGYI6EY(D0161)

Part No.: YS-1204YG14CI007-A

Part Name: 3010 黃綠双色 LED

Spec Issue Date: 2023-07-17

Revision No.: A0

==========

To Customer:

1. Accessory: □Samples □ Samples Data

2. Customer's Proposal : □Agree □Disagree

Reason :_____

Draw by :	Checked by :	Approved by :
王博闻	卢伟昌	钟志鸿
Customer Approve		
	開發部 2023.08.04 發行 鈺德科技開發股份有限公司	

Features

3.0mm X 1.0mm SMD LED, 1.4mm thickness

Low power consumption

Wide view angle

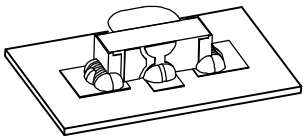
Package: 3000pcs/reel

RoHS Compliant

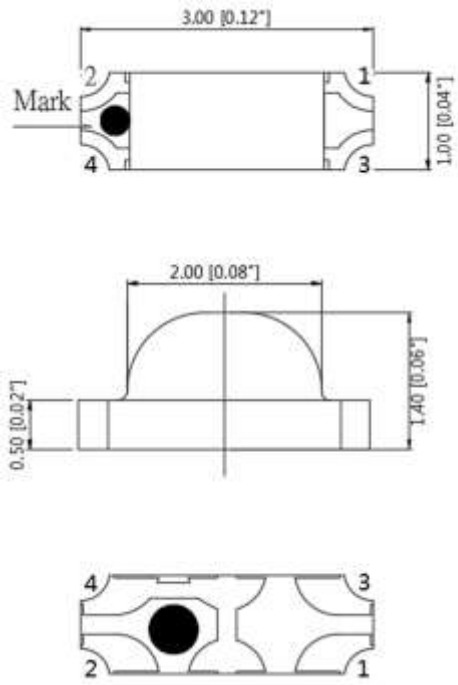
Applications

Ideal for back light and indicator

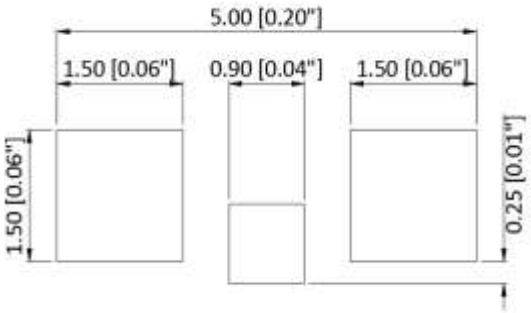
Various colors and lens types available



Package outlines



Recommend Pad Layout





Part No.	Emitted color	Dice	Lens color
YS-1204YG14CI007-A	Yellow	AlGaInP	Water transparent
	Green	InGaN/GaN	

Notes:

1. All dimensions are in millimeters (inches);
2. Tolerances are ±0.1mm (0.004inch) unless otherwise noted.

Absolute Maximum Ratings (Ta=25℃)

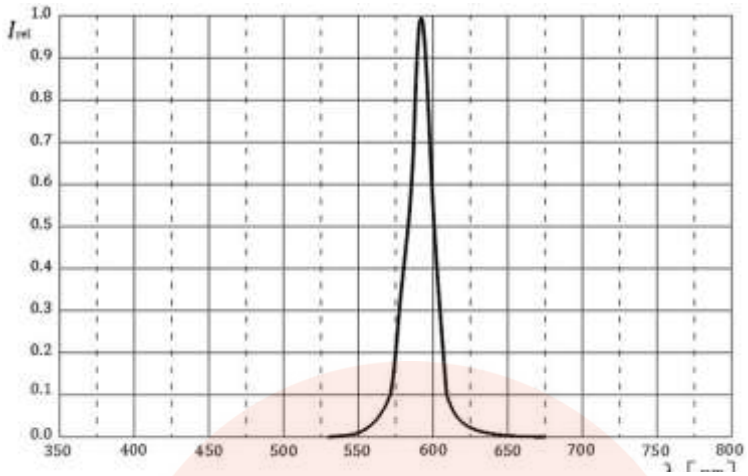
Parameter	Symbol	Value		Unit
		Y	G	
Forward current	If	25		mA
Reverse voltage	Vr	5		V
Power dissipation	Pd	72	111	mW
Operating temperature	Top	-40 ~+85		℃
ESD(Human-body mode)	--	4	2	KV
Storage temperature	Tstg	-40 ~+85		℃
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125		mA

Electro-Optical Characteristics (Ta=25℃)

Parameter	Test Condition	Symbol		Value			Unit
				Min	Typ	Max	
Wavelength at peak emission	If=20mA	λp	Y	--	593	--	nm
			G	--	540	--	
Spectral half bandwidth	If=20mA	△λ	Y	--	20	--	nm
			G	--	25	--	
Dominant wavelength	If=20mA	λd	Y	585	--	595	nm
			G	520	--	530	
Forward voltage	If=20mA	Vf	Y	1.8	--	2.4	V
			G	2.8	--	3.7	
Luminous intensity	If=20mA	IV	Y	80	--	200	mcd
			G	320	--	800	
Viewing angle at 50% Iv	If=10mA	2θ1/2		--	120	--	Deg
Reverse current	Vr=5V	Ir		--	--	10	μA

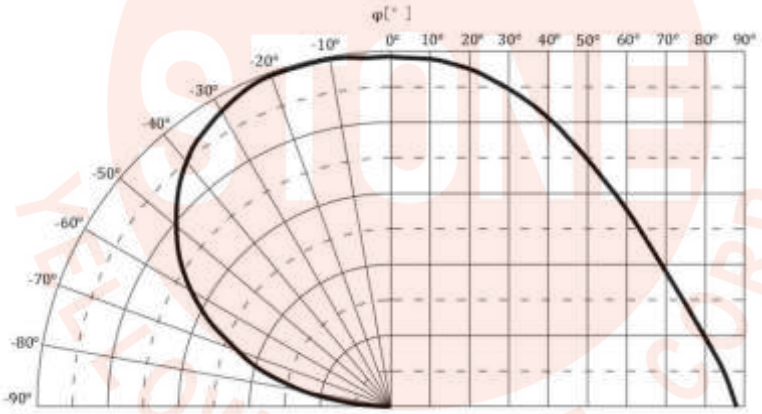
Relative Spectral Emission (Yellow)

IF=20mA,Ta=25℃



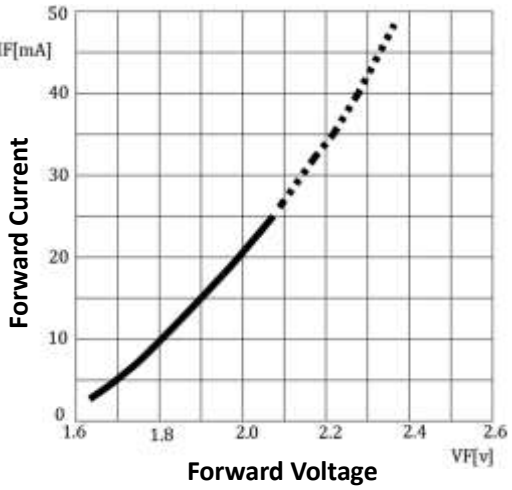
Radiation Characteristics

IF=10mA,Ta=25℃

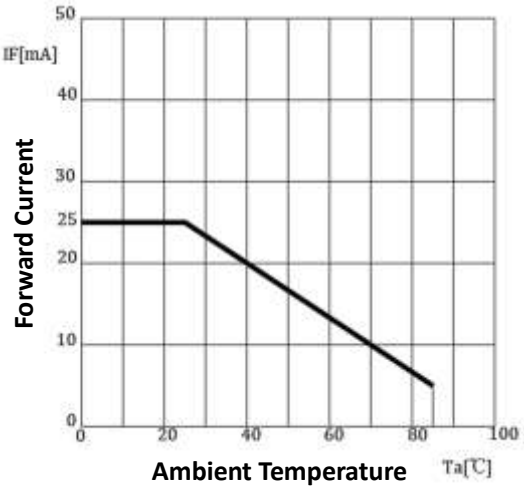


Forward Current vs Forward Voltage

Ta=25℃

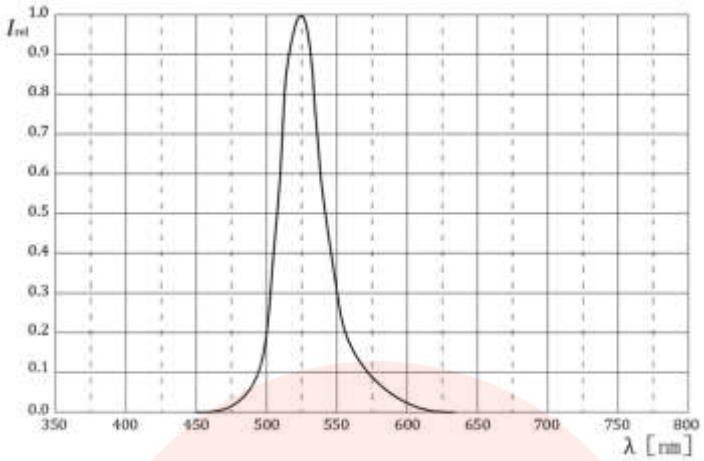


Forward Current Derating Curve



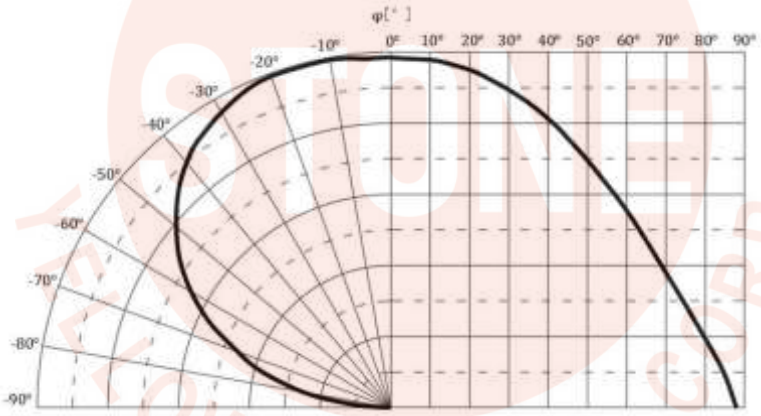
Relative Spectral Emission (Green)

IF=20mA,Ta=25℃



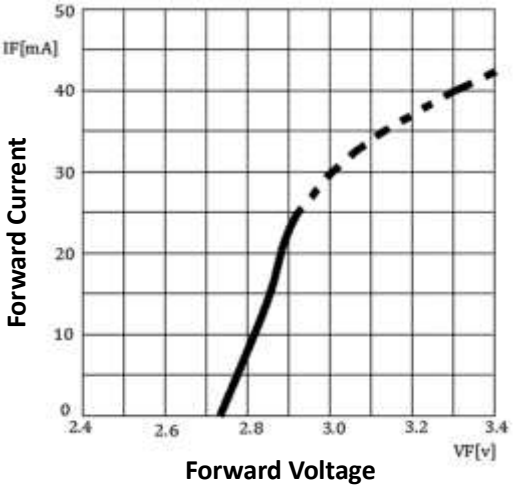
Radiation Characteristics

IF=10mA,Ta=25℃

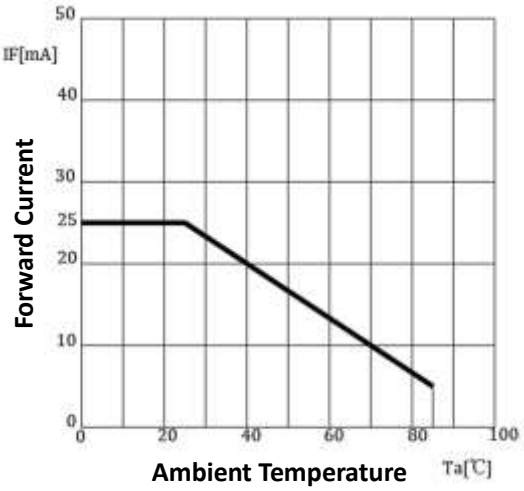


Forward Current vs Forward Voltage

Ta=25℃

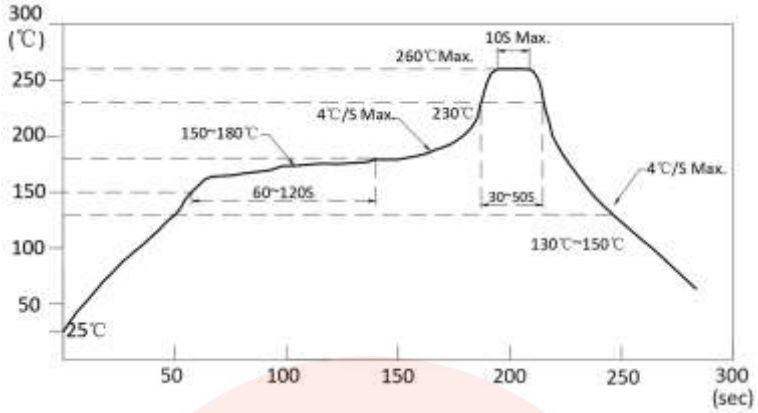


Forward Current Derating Curve



Reflow Profile

■ Reflow Temp/Time



Notes:

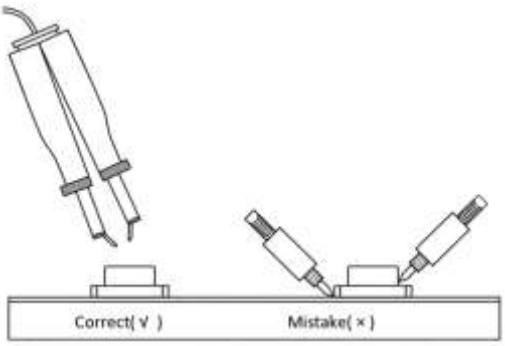
1. We recommend the reflow temperature 245℃ (±5℃).The maximum soldering temperature should be limited to 260℃.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

■Soldering iron

Basic spec is ≤ 5sec when 320℃ (±20℃). If temperature is higher, time should be shorter (+10℃→ -1sec). Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 350℃.

■Rework

1. Customer must finish rework within 5 sec under 340℃.
2. The head of iron cannot touch copper foil
3. Twin-head type is preferred.

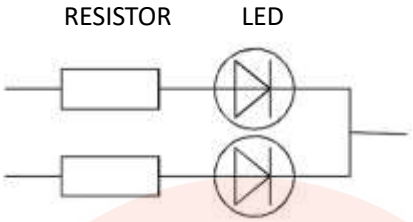


■ Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow solder etc.

Handling precautions

1.Drive Method

A LED is a current-operated device. In order to ensure intensity uniformity on multiple LEDs connected in parallel in an application, it is recommended that a current limiting resistor be incorporated in the drive circuit, in series with each LED as shown in Circuit below.



2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package: The LEDs should be kept at 30℃ or less and 60% RH or less.

2.3 After the package is opened, the products should be used within a week or they should be keeping to store at≦20 R.H. with zip-lock sealed.

3. Baking

It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as followings:

3.1 60±3℃ x(12~24hrs) and ＜5%RH, taped reel type

3.2 100±3℃ x (45min~1hr), bulk type

3.3 130±3℃ x (15~30min), bulk type

Test Items and Results of Reliability

Test Item	Test Conditions	Standard Test Method	Note	Number of Test
Reflow Soldering	Ta=260±5℃,Time=10±2S	JB/T 10845-2008	3times	0/22
Temperature Cycling	-40±5℃ 30±1min ↑→(25℃/5±1min)↓ 100±5℃ 30±1min	GB/T 2423.22-2012	100cycles	0/22
Thermal Shock	Ta=-40±5℃～100±5℃, 15±1min dwell	GB/T 2423.22-2012	100cycles	0/22
High Humidity High Temp. Cycling	Ta=30±5℃～65±5℃, 90±5%RH,24hrs/1cycle	GB/T 2423.4-2008	10cycles	0/22
High Humidity High Temp. Storage Life	Ta=85±5℃,ψ(%)=85±5%RH	GB/T 2423.3-2006	1000hrs	0/22
High Temperature Storage Life	Ta=100±5℃,non-operating	GB/T 2423.2-2008	1000hrs	0/22
Low Temperature Storage Life	Ta=-40±5℃,non-operating	GB/T 2423.1-2008	1000hrs	0/22
Life Test	Ta=26±5℃,@20mA, ψ(%)=25%RH～55%RH	--	1000hrs	0/22
Low Temperature Operating Life	Ta=-20±5℃,@20mA	GB/T 2423.1-2008	1000hrs	0/22

Forward Voltage Rank Combination (IF=20mA)

Rank		Min.	Max.	Unit
Y	□	1.8	2.4	V
G	f	2.8	3.1	
	g	3.1	3.4	
	h	3.4	3.7	

Luminous Intensity Rank Combination (IF=20mA)

Rank		Min.	Max.	Unit
Y	I	80	100	mcd
	J	100	125	
	K	125	160	
	L	160	200	
G	O	320	400	
	P	400	500	
	Q	500	630	
	R	630	800	

Dominant wavelength Rank Combination (IF=20mA)

Rank		Min.	Max.	Unit
Y	m	585	590	nm
	n	590	595	
G	U	520	522.5	
	V	522.5	525	
	W	525	527.5	
	X	527.5	530	

Group Name on Label (Example DATA: □Jm fPW 20)

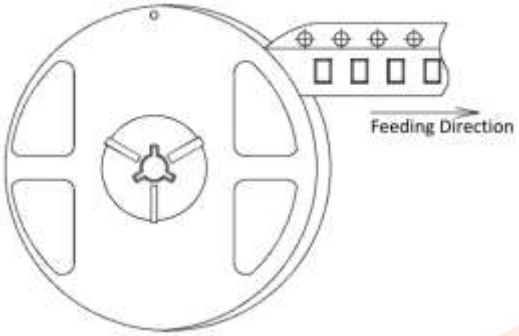
DATA:□Jm fPW 20		Vf(V)	Iv (mcd)	λd (nm)	Test Condition
Red	□→J→m→20	1.8~2.4	100~125	585~590	IF=20mA
Green	f→P→W→20	2.8~3.1	400~500	525~527.5	

Notes:

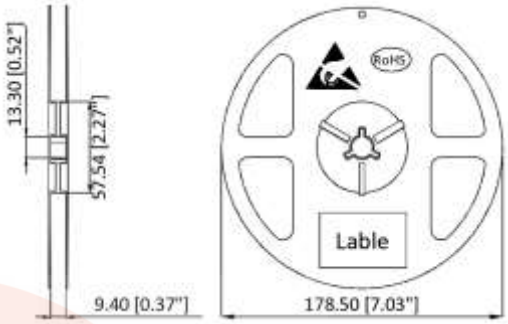
1. The tolerance of luminous intensity (Iv)is ±15％.
2. The tolerance of dominant wavelength is ±1nm.
3. This specification is preliminary.
4. This specification is a standard specification of our factory, can make in accordance with customer's special requirement.

3010 Series SMD Chip LED Lamps Packaging Specifications

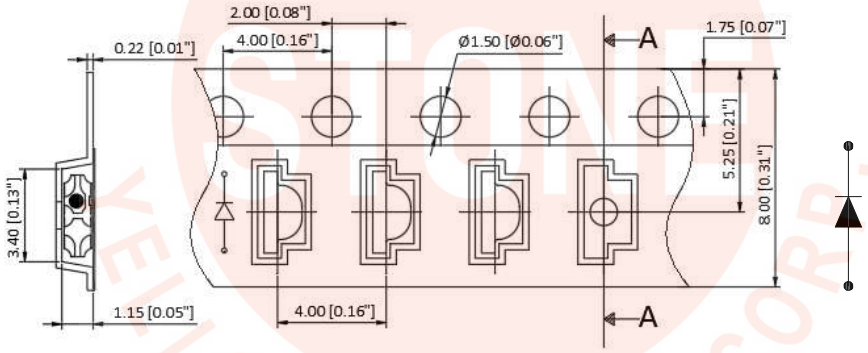
- **Feeding Direction**



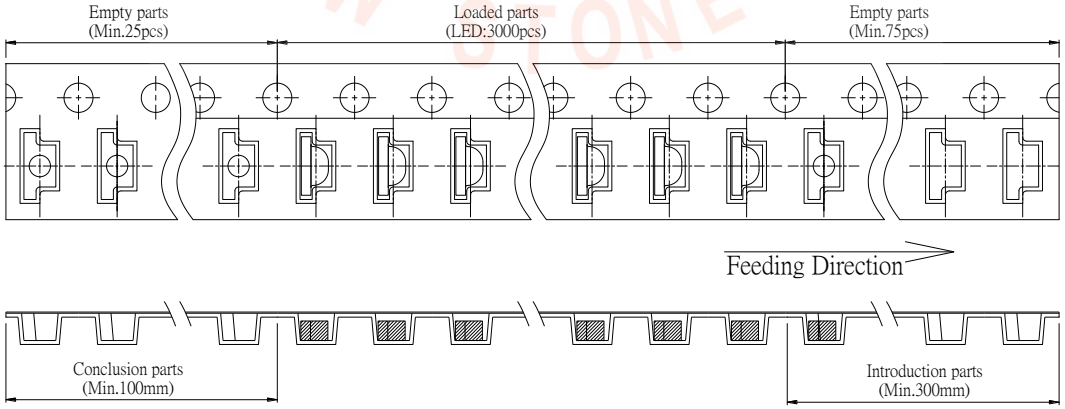
- **Dimensions of Reel (Unit: mm)**



- **Dimensions of Tape (Unit: mm)**



- **Arrangement of Tape**



Notes:

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two;
3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.
4. 3,000pcs/Reel

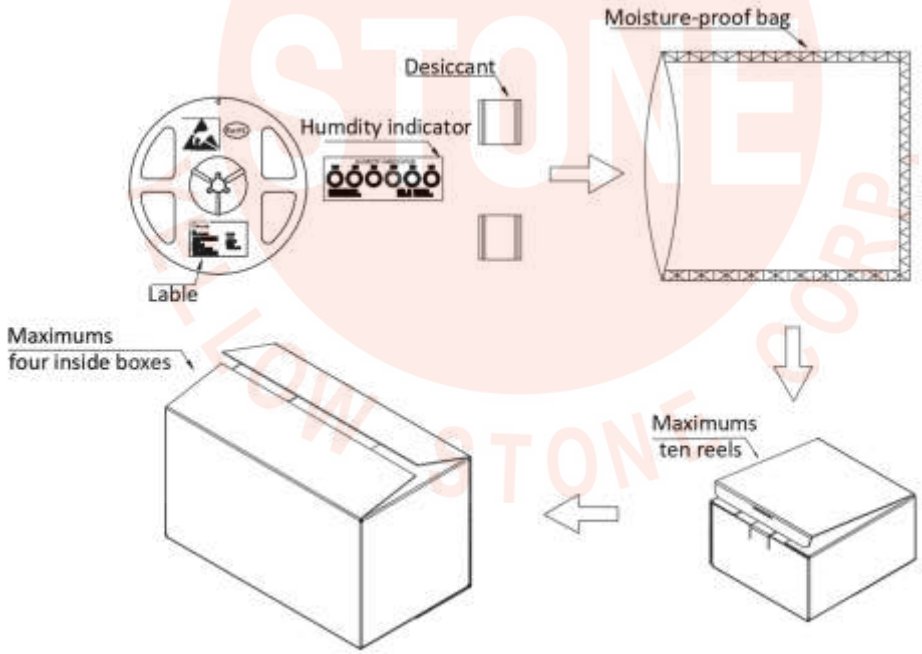
3010 Series SMD Chip LED Lamps Packaging Specifications

- **Label Explanation**



CPN: Customer's Product Number
P/N: Product Number
QTY: Packing Quantity
LOT NO: Lot Number
VF: Forward Voltage Rank
IV: Luminous Intensity Rank
WLD: Dom. Wavelength Rank
BIN:BIN Code
DATE: Date Of Dispatch

- **Transportation Packing**



Notes:

Reeled products (numbers of products are 3,000pcs) packed in a seal off moisture-proof bag along with two desiccant one by one, ten moisture-proof bag of maximums packed in an inside box (about size: 240x 220x 120mm) and four inside boxes of maximums are put in the outside box (about size: 460mm x 246mm x 250mm) Together with buffer material, and it is packed. The number of the loading steps of outside box (cardboard box) has it to three steps.

Test Report 測試報告

Number : TWNC01173980
報告號碼

Issue Date : May 23, 2023
報告發行日期

Applicant:
申請廠商

Yellow Stone Corp.
早安股份有限公司
10F., No.166, Daya Rd.,
Beitou Dist., Taipei, Taiwan
台北市北投區大業路 166 號 10 樓

SAFE CORP. (Shenzhen)
深圳市全安電子有限公司
9E, Berny Bldg, No. 550, Fangyuan Rd,
Guangming District, Shenzhen,
GuangDong, China.
深圳市光明区芳园路 550 号伯尼大厦 9E

SAFE WELL CORP. (Shenzhen)
深圳市佰安電子有限公司
9F, Berny Bldg, No. 550, Fangyuan Rd,
Guangming District,Shenzhen,
GuangDong, China.
深圳市光明区芳园路 550 号伯尼大厦 9F

Sample Description 樣品敘述:

One (1) Group of Submitted Samples Said To Be :
以下測試樣品乃供應商所提供及確認:

Sample Description 樣品名稱	: OPTO ELECTRONIC PRODUCTS
Style / Item No. 產品型號	: CHIP, AXIAL Series
Country of Origin 原產地	: 大陸
Goods Exported to 外銷國家	: 全世界
Date Sample Received 收件日期	: May 08, 2023
Date Test Started 開始測試日期	: May 08, 2023

Test Conducted 測試執行:

As requested by the applicant, for details please refer to attached pages.
依申請商之要求, 細節請參考附頁.

Authorized By:
On behalf of Intertek Testing Services Taiwan Limited

Matt Wang
Director

Signed by:

Thomas Chou
Manager

Intertek Testing Services Taiwan Ltd.
全國公證檢驗股份有限公司

8F., No. 423, Ruiguang Rd., Neihu District,
Taipei, 114690, Taiwan, R.O.C.
114690 台北市內湖區瑞光路 423 號 8 樓

Tel: (+886-2) 6602-2888 · 2797-8885
Fax: (+886-2) 6602-2420
www.intertek-twn.com

Test Conducted 測試內容：

Test Result Summary 測試結果：

Test Item 測試項目	Unit 單位	Test Method 測試方法	Result 結果	RL
			Mixed all kinds of submitted samples (#)	
Heavy Metal 重金屬				
Cadmium (Cd) Content 鎘含量	ppm	With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES. 參考 IEC 62321-5: 2013，以微波或酸液消化法消化樣品並用感應耦合電漿原子發射光譜儀分析。	ND	2
Lead (Pb) Content 鉛含量	ppm	With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES. 參考 IEC 62321-5: 2013，以微波或酸液消化法消化樣品並用感應耦合電漿原子發射光譜儀分析。	ND	2
Mercury (Hg) Content 汞含量	ppm	With reference to IEC 62321-4:2013+AMD1:2017, by microwave or acid digestion and determined by ICP-OES. 參考 IEC 62321-4:2013+AMD 1:2017，以微波或酸液消化法消化樣品並用感應耦合電漿原子發射光譜儀分析。	ND	2
Chromium VI (Cr(VI)) Content 六價鉻含量	ppm	With reference to IEC 62321-7-2: 2017, organic solvent was used to dissolve or swell sample matrix, followed by alkaline digestion and determined by UV-Vis Spectrophotometer. 參考 IEC 62321-7-2:2017，以有機溶劑溶解或使樣品基質膨脹，再進行鹼液消化，用紫外光-可見光分光光度計分析。	ND	8

Intertek Testing Services Taiwan Ltd.
全國公證檢驗股份有限公司
8F., No. 423, Ruiguang Rd., Neihu District, Taipei, 114690, Taiwan, R.O.C.
114690 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885
Fax: (+886-2) 6602-2420
www.intertek-twn.com

Test Conducted 測試內容：

Test Item 測試項目	Unit 單位	Test Method 測試方法	Result 結果 Mixed all kinds of submitted samples (#)	RL
Polybrominated Biphenyls (PBBs) 多溴聯苯				
Monobrominated Biphenyls (MonoBB) 單溴聯苯	ppm	With reference to IEC 62321-6: 2015, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary. 參考 IEC 62321-6: 2015，以溶劑萃取並用氣相層析質譜儀分析，必要時會以高效液相層析儀光二極體陣列偵測儀進行確認。	ND	5
Dibrominated Biphenyls (DiBB) 二溴聯苯	ppm		ND	5
Tribrominated Biphenyls (TriBB) 三溴聯苯	ppm		ND	5
Tetrabrominated Biphenyls (TetraBB) 四溴聯苯	ppm		ND	5
Pentabrominated Biphenyls (PentaBB) 五溴聯苯	ppm		ND	5
Hexabrominated Biphenyls (HexaBB) 六溴聯苯	ppm		ND	5
Heptabrominated Biphenyls (HeptaBB) 七溴聯苯	ppm		ND	5
Octabrominated Biphenyls (OctaBB) 八溴聯苯	ppm		ND	5
Nonabrominated Biphenyls (NonaBB) 九溴聯苯	ppm		ND	5
Decabrominated Biphenyl (DecaBB) 十溴聯苯	ppm		ND	5
Polybrominated Diphenyl Ethers (PBDEs) 多溴聯苯醚				
Monobrominated Diphenyl Ethers (MonoBDE) 單溴聯苯醚	ppm	With reference to IEC 62321-6: 2015, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary. 參考 IEC 62321-6: 2015，以溶劑萃取並用氣相層析質譜儀分析，必要時會以高效液相層析儀光二極體陣列偵測儀進行確認。	ND	5
Dibrominated Diphenyl Ethers (DiBDE) 二溴聯苯醚	ppm		ND	5
Tribrominated Diphenyl Ethers (TriBDE) 三溴聯苯醚	ppm		ND	5
Tetrabrominated Diphenyl Ethers (TetraBDE) 四溴聯苯醚	ppm		ND	5
Pentabrominated Diphenyl Ethers (PentaBDE) 五溴聯苯醚	ppm		ND	5
Hexabrominated Diphenyl Ethers (HexaBDE) 六溴聯苯醚	ppm		ND	5
Heptabrominated Diphenyl Ethers (HeptaBDE) 七溴聯苯醚	ppm		ND	5
Octabrominated Diphenyl Ethers (OctaBDE) 八溴聯苯醚	ppm		ND	5
Nonabrominated Diphenyl Ethers (NonaBDE) 九溴聯苯醚	ppm		ND	5
Decabrominated Diphenyl Ether (DecaBDE) 十溴聯苯醚	ppm		ND	5

Intertek Testing Services Taiwan Ltd.
全國公證檢驗股份有限公司
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Test Conducted 測試內容：

Test Item 測試項目	Unit 單位	Test Method 測試方法	Result 結果 Mixed all kinds of submitted samples (#)	RL
Phthalates 鄰苯二甲酸酯				
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯	ppm	With reference to IEC 62321-8:2017, by solvent extraction and determined by GC-MS. 參考 IEC 62321-8:2017，以溶劑萃取並用氣相層析質譜儀分析。	ND	50
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯	ppm		ND	50
Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸苯基丁酯	ppm		ND	50
Diisobutyl Phthalate (DIBP) 鄰苯二甲酸二異丁酯	ppm		ND	50
Others 其他				
Perfluorooctane Sulfonates Including PFOS, PFOSA, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE 全氟辛磺酸含 PFOS, PFOSA, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE	ppm	With reference to CEN/TS 15968:2010, by solvent extraction and determined by LC-MS-MS. 參考 CEN/TS 15968:2010，以溶劑萃取並用液相層析串聯質譜儀分析。	ND	0.01
Perfluorooctanoic Acid (PFOA) 全氟辛酸	ppm	With reference to CEN/TS 15968:2010, by solvent extraction and determined by LC-MS-MS. 參考 CEN/TS 15968:2010，以溶劑萃取並用液相層析串聯質譜儀分析。	ND	0.01

Remarks: 備註
- ppm = Parts per million based on weight of tested sample = mg/kg 百萬分之一，依據測試樣品重量計算 = 毫克/公斤
- ND = Not detected 未檢測出
- RL = Reporting limit, quantitation limit of analyte in sample 報告極限，測試樣品之定量偵測極限
- # = Test results were for reference only and might not represent the real content in each component as the composite sampling procedure was according to the special request of client. Please be noted the fewer components are mixed up, the better representation of sampling will get. 依據客戶要求進行混合測試，故本測試結果僅供參考，且該混測結果不一定能代表各分測結果。請注意混測數量越少，各樣品取樣代表性會越佳。

Responsibility of Chemist 分析人員 : Cloud Hsu/ Vita Fu

Date Sample Received 樣品收件日期 : May 08, 2023
Test Period 樣品測試期間 : May 08, 2023 to May 17, 2023

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Test Conducted 測試內容：

RoHS Limit RoHS 限值

Restricted Substances 限用物質	Limits 限值
Cadmium (Cd) content 鎘含量	0.01% (100ppm)
Lead (Pb) content 鉛含量	0.1% (1000ppm)
Mercury (Hg) content 汞含量	0.1% (1000ppm)
Chromium VI (Cr(VI)) content 六價鉻含量	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs) 多溴聯苯	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs) 多溴聯苯醚	0.1% (1000ppm)
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯	0.1% (1000ppm)
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯	0.1% (1000ppm)
Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸苯基丁酯	0.1% (1000ppm)
Diisobutyl Phthalate (DIBP) 鄰苯二甲酸二異丁酯	0.1% (1000ppm)

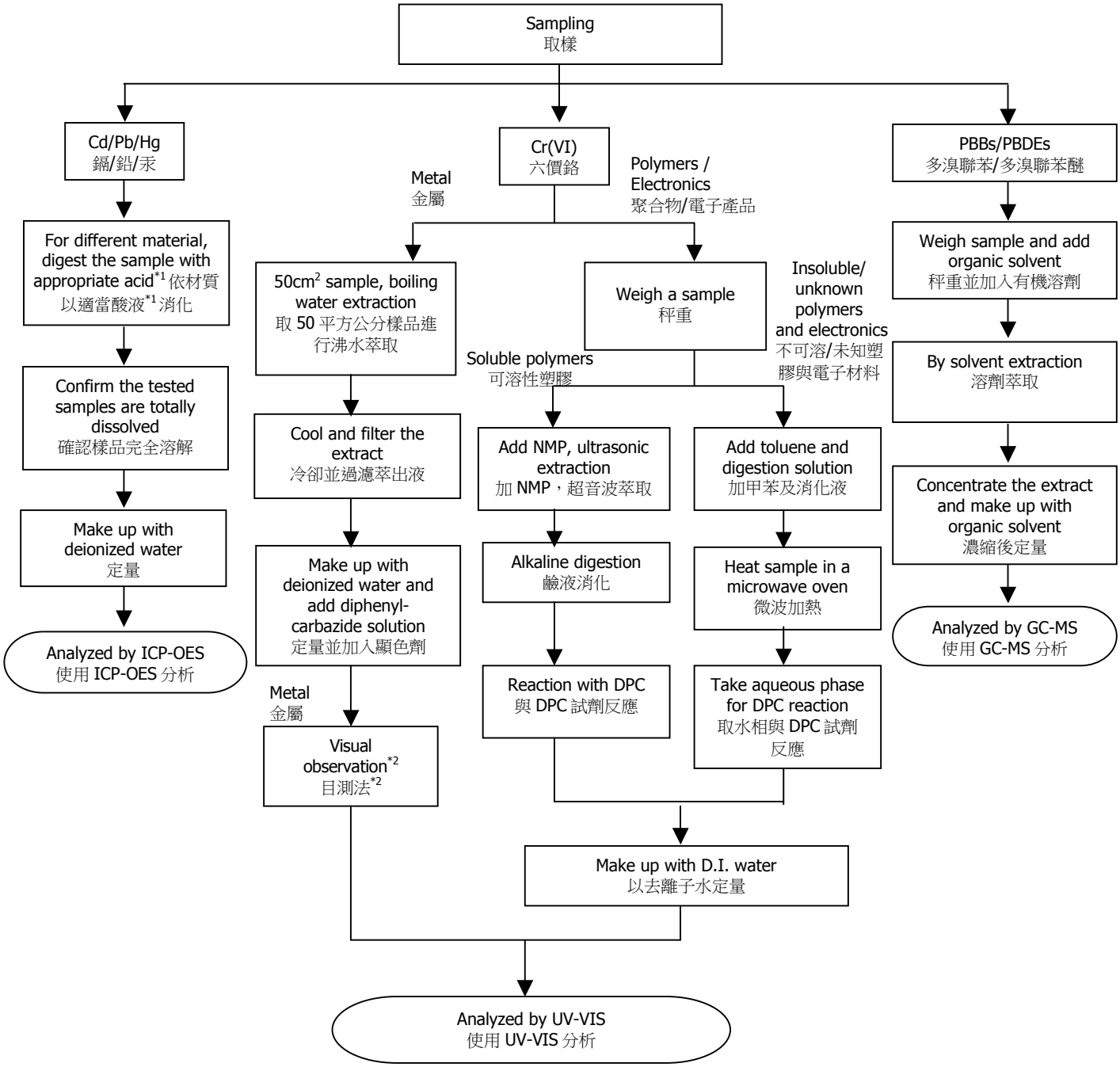
The limits were quoted from Annex II of 2011/65/EU and Amendment (EU) 2015/863 for homogeneous material.
本限值是依據歐盟指令 2011/65/EU 及其更新指令(EU) 2015/863 之附錄二針對均質材質所訂定。

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Test Conducted 測試內容：

Measurement Flowchart 測試流程圖:

Test for Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Content RoHS 六項測試
Reference Method 參考方法：Cd/Pb: IEC 62321-5:2013; Hg: IEC 62321-4:2013+AMD1:2017;
Chromium (VI): IEC 62321-7-1:2015 (boiling water extraction);
Chromium (VI): IEC 62321-7-2:2017 (solvent and alkaline extraction);
PBBs/PBDEs: IEC 62321-6:2015



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Test Conducted 測試內容：

Remark 備註:

*1: List of Appropriate Acid 各材質添加酸液如下表：

Material 材質	Acid Added for Digestion 添加酸液種類
Polymers 聚合物	HNO_3,HCl,HF,H_2O_2,H_3BO_3 硝酸、鹽酸、氫氟酸、雙氧水、硼酸
Metals 金屬	HNO_3,HCl,HF 硝酸、鹽酸、氫氟酸
Electronics 電子產品	HNO_3,HCl,H_2O_2,HBF_4 硝酸、鹽酸、雙氧水、氟硼酸

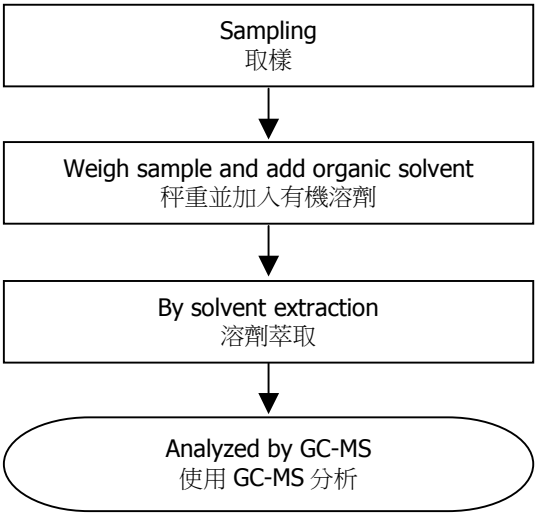
*2: If sample solution is significantly more intense than 0.13 μg/cm^2 equivalent comparison standard, Chromium VI would be determined as detected, the result of visual observation is positive.
當待測樣品溶液顏色明顯比 0.13 μg/cm^2 深，採用目測法判定六價鉻結果為陽性。

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Test Conducted 測試內容：

Measurement Flowchart 測試流程圖:

Test for Phthalates Content 鄰苯二甲酸酯測試
Reference Method 參考方法：IEC 62321-8:2017

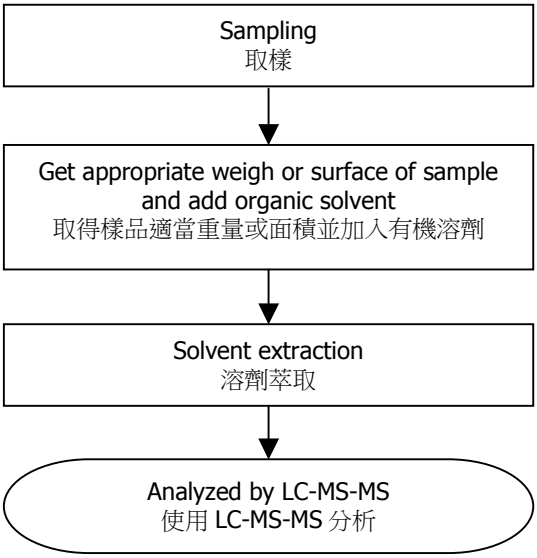


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Test Conducted 測試內容：

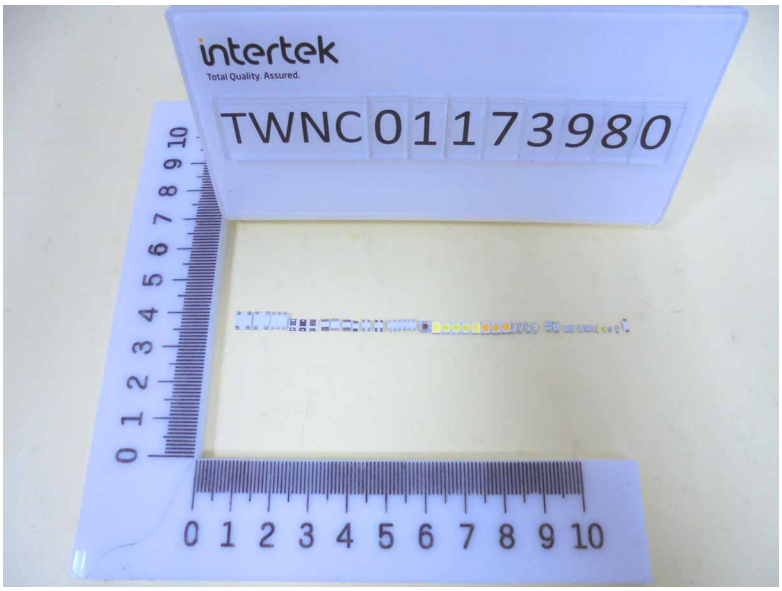
Measurement Flowchart 測試流程圖:

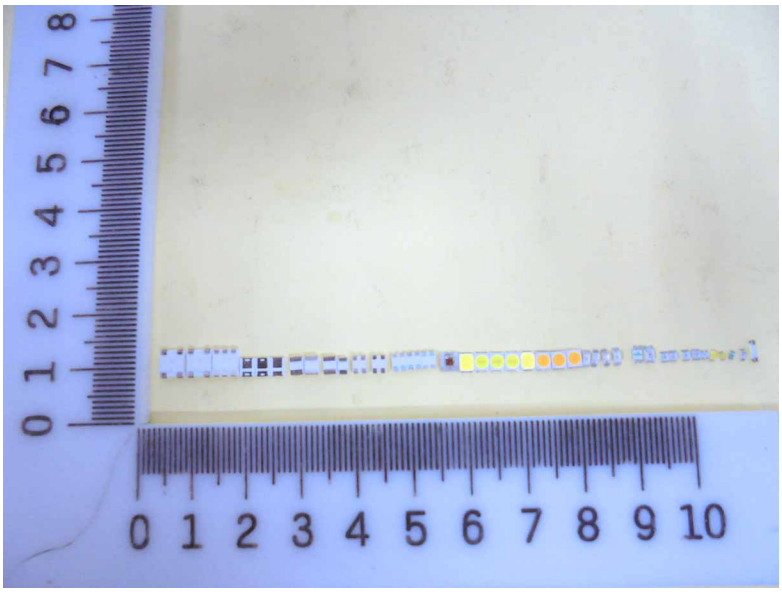
Test for Perfluorooctane Sulfonates (PFOS) / Perfluorooctanoic Acid (PFOA) Content 全氟辛磺酸 /全氟辛酸測試
Reference Method 參考方法：CEN/TS 15968:2010



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Sample photo 樣品照片 :





End of Report

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Reporting Statements of Conformity: *Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.*

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