



SYNTON-TECH CORPORATION

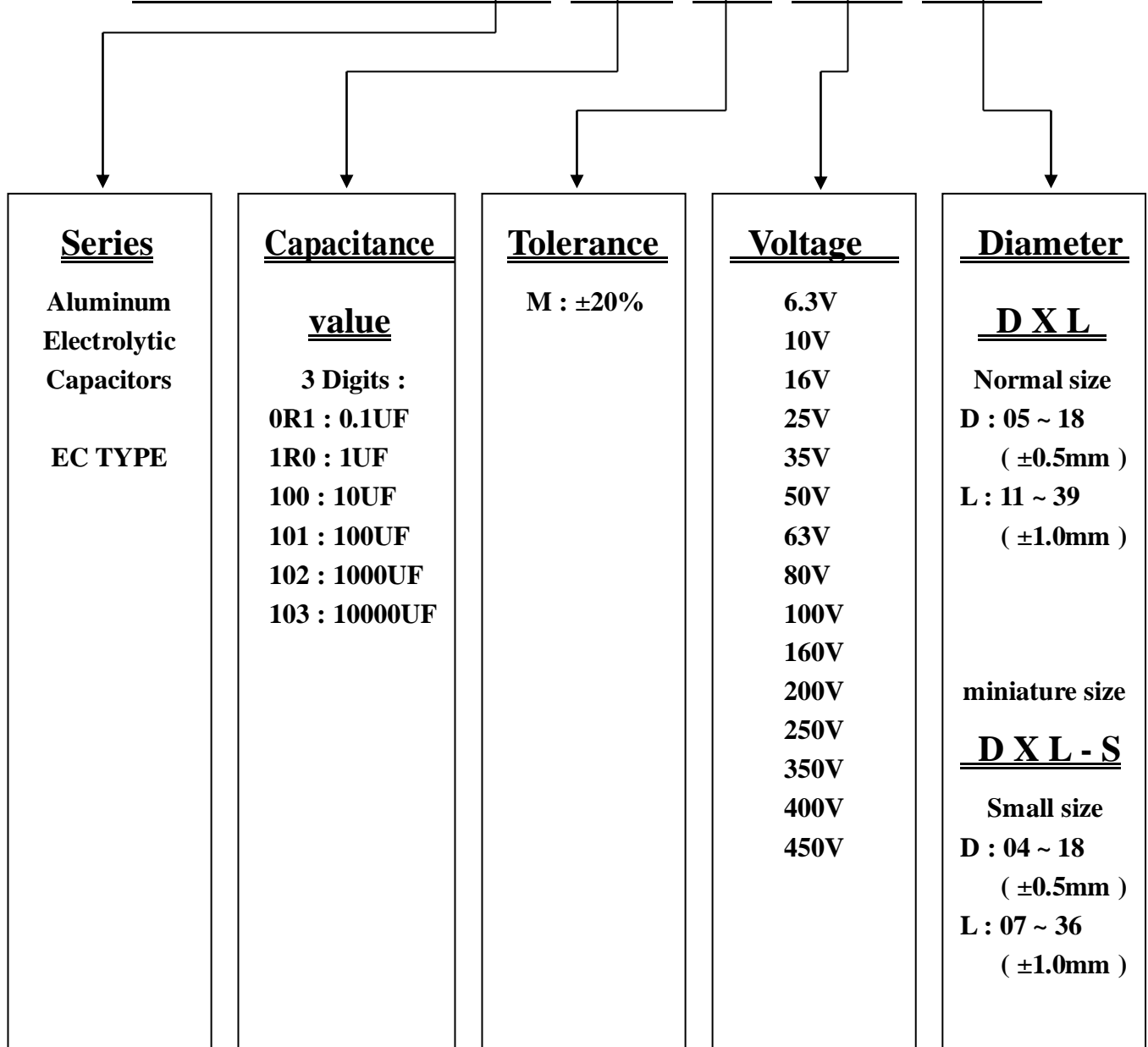
ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	1/17
Date:	2021.01.14

● **Explanations Of Ordering Code**

DESCRIPTION : E/C 1000UF 20% 10V 8X11mm

SYNTON CODE : E/C 102 M 10V 0811



APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
Carol	May	Chen	PAGE: 8	0201010136



SYNTON-TECH CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	2/17
Date:	2021.01.14

● EC Series – 105°C General Type

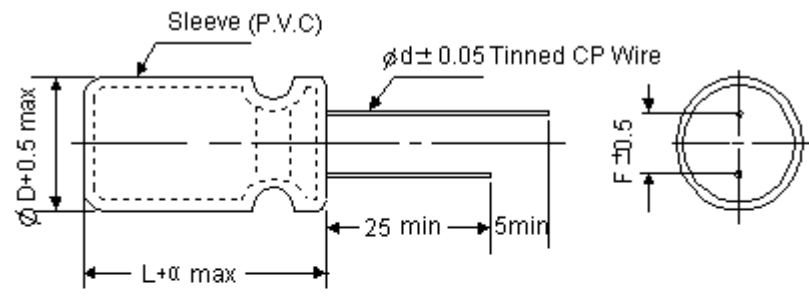
Suitable for consumer electronic or telecommunication equipment and industry products etc.

■ Specifications

Item	Characteristic												
Capacitance Tolerance (120Hz 25°C)	±20% (M)												
Rated Working Voltage	6.3 ~ 100VDC	160 ~ 450VDC											
Operation temperature Range	-40~+105°C	-25~+105°C											
Leakage Current (25°C)	$I \leq 0.02CV$ or $4 \mu A$, whichever is greater after 2 minutes application of rated voltage.	$I \leq 0.03CV + 10 \mu A$ max after 2 minutes application of rated voltage..											
Dissipation Factor (120Hz 25°C) (tan δ)	For capacitance of more than 1,000uf, add 0.02 for every increase of 1000uF.												
	W.V	6.3	10	16	25	35	50	63	100	160~250	350~450		
	tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25		
Temperature Characteristics(120Hz)	Impedance Ratio/ Stability at Low Temperature												
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~200	250~350	400	450
	Z(-25°C)/Z(20°C)	5	4	3	2	2	2	2	2	3	4	6	15
	Z(-40°C)/Z(20°C)	10	8	6	4	3	3	3	3	4	8	10	-
Load Life	After 1000 hours application of W.V. At 105°C the capacitor shall meet the characteristics requirements mentioned below.												
	Capacitance Change	Within ±20% of initial value											
	Tan δ	200% or less of initial specified value											
	Leakage Current	Initial specified value or less											
Shelf life	At 105°C no voltage applied for 500 hours the capacitor shall meet the limits as in load life.												



● **Dimensions**



(unit : mm)

ØD	5	6.3	8	10	13	16	18	20	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
Ød	0.5	0.5	0.5	0.6	0.6	0.8	0.8	1.0	1.0	1.0
α	L < 20 : 1.5mm, L ≥ 20:20mm									



SYNTON-TECH CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	4/17
Date:	2021.01.14

■ Size list (Radial type)

(Ø D × L mm)

Vv uF	6.3		10		16		25		35		50		63	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.10											5x11	1.3		
0.22											5x11	2.9		
0.33											5x11	4.3		
0.47											5x11	7		
1.0											5x11	13		
2.2											5x11	20		
3.3											5x11	25		
4.7											5x11	30		
10					5x11	35	5x11	36	5x11	41	5x11	46	5x11	46
22	5x11	45	5x11	45	5x11	54	5x11	58	5x11	61	5x11	68	6.3x11	82
													5x11	71
33	5x11	55	5x11	58	5x11	65	5x11	68	5x11	75	6.3x11	95	6.3x11	100
											5x11	90		
47	5x11	65	5x11	68	5x11	79	5x11	83	6.3x11	100	6.3x11	115	8x11	135
									5x11	93	8x11	130	6.3x11	120
68	5x11	75	5x11	80	5x11	90	5x11	95	6.3x11	110	8x11	145	8x11	155
											6.3x11	130		
100	5x11	95	5x11	105	6.3 x 11	125	6.3 x 11	140	8 x 11	170	8 x 11	190	10 x 12	215
					5 x 11	115			6.3 x 11	150			8 x 11	200
220	5 x 11	145	6.3 x 11	175	6.3 x 11	190	8 x 11	240	10 x 12	275	10 x 16	440	10 x20	400
			5 x 11	155					8 x 11	250	10 x 12	300	10 x16	335
330	6.3x11	195	6.3x11	210	8x11	260	10x12	315	10x16	400	10x20	460	13x21	540
							8x11	275	10x12	350	10x16	410	10x20	510
470	6.3X11	230	8x11	290	10x12	370	10x16	440	10x20	520	13x21	610	13x21	640
			6.3x11	250	8x11	315	10x12	380	10x16	460	10x20	540		
680					8x14	335								
1000	8x11	390	8x12	460	10x20	640	13x21	770	13x25	920	16x25	1080	16x32	1210
					10x16	560	10x20	680	13x21	810	13x25	950	16x25	930
1500					10x20	1000								
2200	10x20	710	10x20	760	13x25	1000	16x25	1170	16x32	1340	16x36	1470	18x36	1650
	10x16	635	10x16	710	13x21	920	13x21	1090	16x25	1260	16x32	1410		
3300	10x20	840	13x21	1000	16x25	1300	16x32	1460	16x36	1610	18x36	1770	20x40	1950
			10x20	920	13x25	1170	16x25	1400	16x32	1500				
4700	13x21	1090	16x25	1400	16x32	1600	16x32	1710	18x36	1910	20x40	2100	22x50	2450
			13x25	1260	16x25	1480	16x25	1570	16x36	1780				
6800	16x25	1500	16x32	1690	16x36	1780	18x36	2040	22x40	2150	22x50	2500	25x50	2800
	13x25	1350	16x25	1570	16x25	1600	16x36	1850	18x40	2000				
10000	16x32	1765	16x36	1890	18x36	2060	20x40	2150	22x50	2650	25x50	2850		
	16x25	1650	16x32	1820	16x36	1930	18x40	2000						
15000	16x36	2010	18x36	2180	20x40	2430	22x50	2750	25x50	3100				
	16x32	1820	16x36	2050	18x40	2210								
22000	18x40	2350	20x40	2650	22x50	3000	25x50	3250						
	18x36	2280	18x40	2420	22x40	2710								



SYNTECH CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.: E/C-02-#E019
 Version: A
 Page: 5/17
 Date: 2021.01.14

33000	22x50 20x40	2800 2500	22x50 22x50	3250 3210	25x50	3450								
47000	22x50	2780	25x50	3570										

wv uF	100		160		200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.10	5x11	1.5			6.3x11	1.5								
0.22	5x11	3.4			6.3x11	3.3								
0.33	5x11	5.0			6.3x11	5								
0.47	5x11	7.1	6.3x11	11	6.3x11	11	6.3x11	10			6.3x11	8.5		
1	5x11	15	6.3x11	16	6.3x11	16	6.3x11	15	6.3x11	15	8x11 6.3x11	17 14	8x11	13
2.2	5x11	21	6.3x11	25	6.3x11	25	6.3x11	23	8x11 6.3x11	26 21	10x12 8x11	30 27	10x12 8x11	23 20
3.3	5x11	29	6.3x11	30	6.3x11	30	8x11 6.3x11	32 28	10x12 8x11	38 30	10x12 8x11	38 34	10x16 10x12	31 28
4.7	5x11	32	6.3x11	34	8x11 6.3x11	39 35	8x11 6.3x11	39 35	10x12 8x11	45 39	10x16 10x12	50 42	10x20 10x12	40 32
10	6.3x11 5x11	54 50	8x11	41	10x12 8x11	65 57	10x16 10x12	74 71	10x20 10x12	80 64	13x21 10x16	90 64	13x21 10x20	65 27
22	6.3x11	93	10x16 10x12	100 92	10x20 10x16	120 105	13x21 10x20	130 105	13x25 13x21	115 105	16x25 13x25	165 140	16x25 13x25	115 100
33	8x11	130	10x20 10x16	145 125	13x21 10x20	160 140	13x21 10x20	160 140	16x25 13x25	195 170	16x32 16x25	215 170	16x36 16x25	165 125
47	10x12 8x11	165 140	13x21 10x20	195 150	13x21	195	13x25 13x21	210 190	16x36 16x25	270 210	16x36 16x25	270 200	18x40 16x32	185 155
68	10x12	190	13x21	250	13x25	250	16x25	270	16x25	285	16x32	240	18x36	185
100	10x20 10x16	265 240	13x25	315	16x32 16x25	375 320	16x32 16x25	365 310	18x40 18x36	420 370	20x40 18x36	450 310	22x40 18x40	270 200
220	13x25 13x21	440 390	16x36 16x32	570 410	18x36 16x36	575 500	20x40 18x36	600 485	22x50	620	25x50 22x50	660 460	25x50	250
330	13x25	540	18x40 18x36	750 570	20x40 18x40	705 675	22x50 20x40	730 710	25x50	710				
470	16x25	715	22x40 18x40	900 855	22x50 22x40	840 925	25x50 22x50	870 1000						
1000	18x40 18x36	985 960	25x50	1310										
2200	22x50	1750												
3300	25x50	2070												



SYNTON-TECH CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	6/17
Date:	2021.01.14

● Frequency coefficient of allowable ripple current

WV	Cap(uF) Frequency	50Hz	120 Hz	300 Hz	1K Hz	10K Hz~
6.3~100	~68	0.75	1	1.35	1.57	2.00
	100~470	0.80	1	1.23	1.34	1.50
	1,000~6,800	0.85	1	1.10	1.13	1.15
160~450	0.47~220	0.80	1	1.25	1.40	1.60
	330~1,000	0.95	1	1.10	1.13	1.15

● Allowable ripple vs. Ambient temperature

Ambient Temp(°C)	~+70	+85	+105
Compensating Coefficient	1.78	1.4	1.0



● **Miniature size**

Developed short body length to 9m/m for the demand of smaller and thinner electronic equipment.

■ Specifications

Item	Characteristic								
Capacitance Tolerance (120Hz 25°C)	±20% (M)								
Rated Working Voltage	6.3 ~ 63VDC								
Operation temperature Range	-25 ~ +105°C								
Leakage Current (25°C)	I ≤ 0.01CV or 3 (μA)								
	I: leakage Current (μA) C: Rated Capacitance (μF) V: Working Voltage(V) whichever is greater after 2 minutes								
Surge voltage (25°C)	W.V	6.3	10	16	25	35	50	63	
	S.V	8	13	20	32	44	63	79	
Dissipation Factor (120Hz 25°C) (tan δ)	W.V	6.3	10	16	25	35	50	63	
	tan δ	0.22	0.20	0.17	0.15	0.12	0.10	0.10	
High temperature Loading	After 1000 hours application of W.V. At 85°C (the capacitor shall meet the following limits)								
	Capacitance Change ≤ ±20% of initial value								
	Dissipation Factor ≤ 200% of initial specified value								
	Leakage Current ≤ initial specified value								

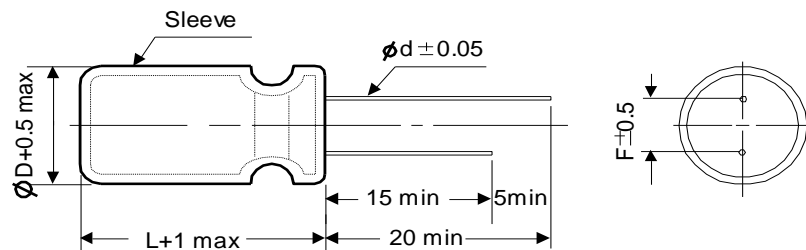


SYNTON-TECH CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	8/17
Date:	2021.01.14

● Dimensions



(unit : mm)

ØD	4	5	6	8
F	1.5	2.0	2.5	3.5
Ød	0.45			0.5

■ Size list (Radial type)

(Ø D × L mm)

(R.C.) 105°C120HZ

uF	W.V.	6.3		10		16		25		35		50		63										
	ITEM	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.									
0.1											→	4x7	1	4x7	3									
0.22											→	4x7	2.3	4x7	5									
0.33		All blank voltage on sleeve marking Is same voltage as "→" point to										→	4x7	3.5	4x7	6								
0.47																				→	4x7	5	4x7	7
1.0																				→	4x7	10	4x7	11
2.2											→	4x7	18	4x7	16									
3.3											→	4x7	23	5x7	22									
4.7									→	4x7	24	4x7	26	5x7	31									
10						4x7	29	4x7	31	4x7	36	6x7	44											
22		4x7	34	4x7	36	4x7	38	$\frac{4x7}{5x7}$	46	6x7	55	6x7	58											
33		4x7	38	4x7	40	5x7	48	6x7	60	6x7	62	8x7	70											
47		4x7	44	4x7	50	5x7	59	6x7	68	6x7	72	8x7	88											
100		5x7	72	5x7	80	6x7	92	8x7	112	8x7	120													
220		6x7	112	6x7	120	8x7	146																	
330		8x7	150	8x7	162	8x7	180																	
470		8x7	230	8x7	250																			



SYNTRONIC CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	9/17
Date:	2021.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 1 of 9

欣統股份有限公司 / SYNTRONIC CORPORATION

(東莞市欣統電子有限公司 / SYNTRONIC CORPORATION)

台灣省新北市汐止區新台五路一段79號16樓之3 / 16F-3, NO. 79, FAR EAST WORLD CENTER SEC. 1, HSIIN TAI WU ROAD, HSI-CHIH DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.

(廣東省東莞市大朗鎮水口村水常一路13號 / NO. 13, SHUI CHANG YI RD., SHUI KOU INDUSTRIAL ZONE DA LANG, DONG GUAN, GUANG DONG, CHINA)



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : ALUMINUM ELECTROLYTIC CAPACITORS (電解電容器)
 樣品型號(Style/Item No.) : E/C TYPE
 收件日期(Sample Receiving Date) : 2018/09/27
 測試期間(Testing Period) : 2018/09/27 TO 2018/10/04

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Troy Chang, Manager, Tech
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



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ALUMINUM ELECTROLYTIC CAPACITORS

File No.: E/C-02-#E019

Version: A

Page: 10/17

Date: 2021.01.14

SGS

測試報告

Test Report

號碼(No.): CE/2018/94625A

日期(Date): 2019/02/13

頁數(Page): 2 of 9

欣統股份有限公司 / SYNTRONIC CORPORATION

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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 整體混測 (MIXED ALL PARTS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No. 1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013) , 以感應耦合電漿 原子發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5 (2013) , 以感應耦合電漿 原子發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n. d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4 (2013) , 以感應耦合電漿 原子發射光譜儀檢測。 / With reference to IEC 62321-4 (2013) and performed by ICP-AES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321-7-2 (2017) , 以UV-VIS檢 測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117- 81-7)	mg/kg	參考IEC 62321-8 (2017) , 以氣相層析儀/ 質譜儀檢測。 / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸丁苄基酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 28761-40-0; 68515- 49-1)	mg/kg		50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515- 48-0)	mg/kg		50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)	mg/kg		50	n. d.

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File No.:	E/C-02-#E019
Version:	A
Page:	11/17
Date:	2021.01.14



測試報告 Test Report

號碼(No.): CE/2018/94625A 日期(Date): 2019/02/13 頁數(Page): 3 of 9

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321 (2008), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n. d.	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n. d.	

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SYNTRONIC CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	12/17
Date:	2021.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 4 of 9

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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File No.:	E/C-02-#E019
Version:	A
Page:	13/17
Date:	2021.01.14



測試報告

Test Report

號碼(No.): CE/2018/94625A

日期(Date): 2019/02/13

頁數(Page): 5 of 9

欣統股份有限公司 / SYNTECH CORPORATION

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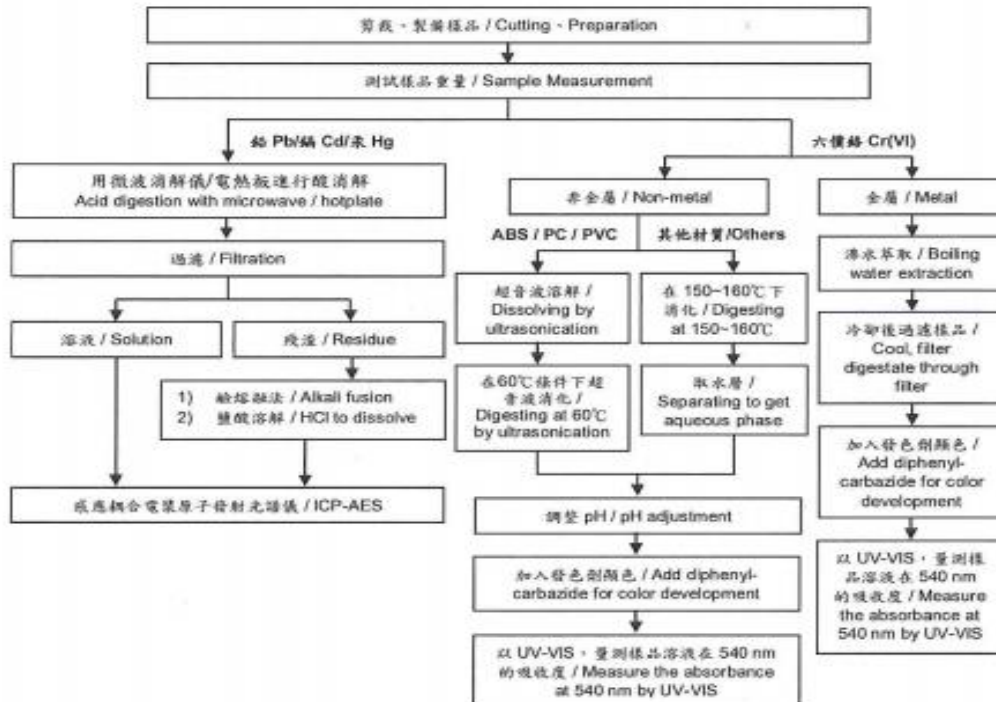


重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員: 陳思陸 / Technician: Rita Chen
- 測試負責人: 張政興 / Supervisor: Troy Chang



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File No.:	E/C-02-#E019
Version:	A
Page:	14/17
Date:	2021.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 6 of 9

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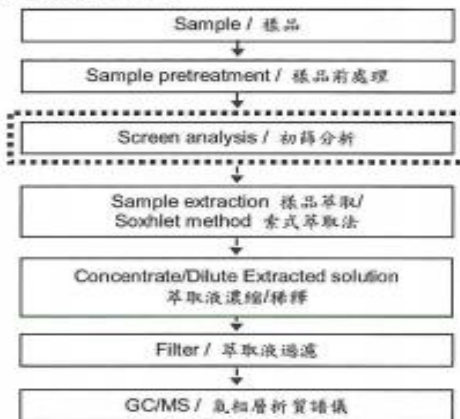
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅琴 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process →
 選擇性篩檢程序 / Optional screen process
 確認程序 / Confirmation process - - ->



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ALUMINUM ELECTROLYTIC CAPACITORS

File No.:	E/C-02-#E019
Version:	A
Page:	15/17
Date:	2021.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 7 of 9

欣統股份有限公司 / SYNTRONIC CORPORATION

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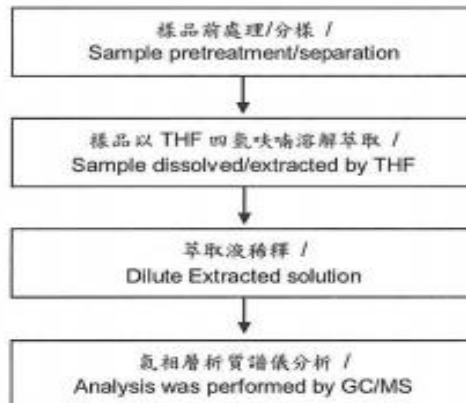
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：涂雅琴 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】



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File No.:	E/C-02-#E019
Version:	A
Page:	16/17
Date:	2019.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 8 of 9

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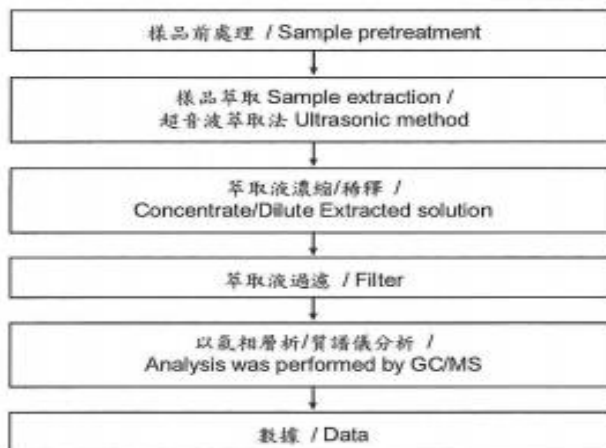
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅琴 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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File No.:	E/C-02-#E019
Version:	A
Page:	17/17
Date:	2019.01.14



測試報告

Test Report

號碼(No.) : CE/2018/94625A

日期(Date) : 2019/02/13

頁數(Page): 9 of 9

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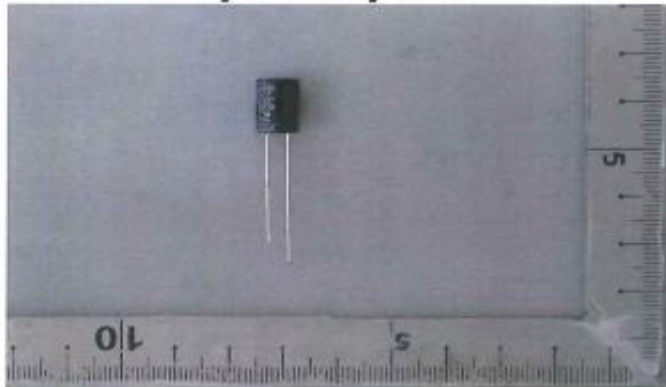
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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