PRODUCT SPECIFICATION

Customer:

Product: Metallized Polypropylene Film Capacitor. Class X2

P/N :

DOC.NO. : CC81823091817~819

Edition: Ver. 6

Record of change

Date	Ver.	Description	Page
23-Mar.-2016	1		
05-Jan.-2017	2	Change part no. designation	3
11-Dec-2017	3	Delete VDE and related marking	4,8
11-Jun-2020	4	Delete KC and revised sizes	8~13
15-Nov-2022	5	Revised sizes 0.33uF (334)	11
22-Nov-2023	6		All

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Prepared by	Checked by	Approved by	Accepted by (customer)
22-Nov-2023	22-Nov-2023	22-Nov-2023	
Hwa Wu	***Andy Hsu***	***Arthur Su***	

SPECIFICATION	
客 戶 名 稱 CUSTOMER	
產 品 型 號 PRODUCT TYPE	CKX X2

產品尺寸圖 **PRODUCT DIMENSIONS**

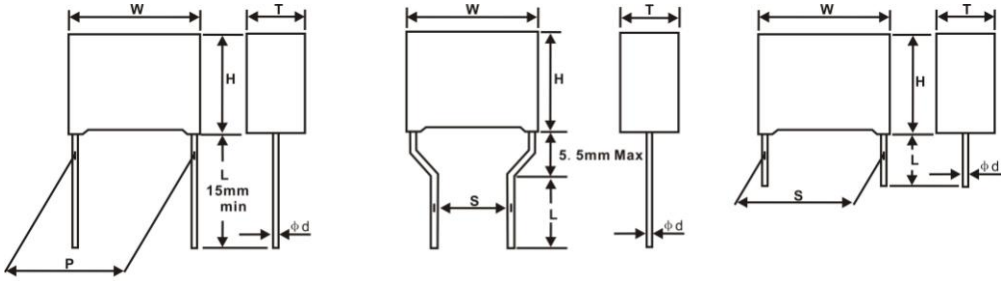


Fig. 1 Fig. 2 Fig. 3

Remark : The color of capacitors may vary within one series

■ 印字請詳見內頁 4
Marking see Page 4

客戶產品型號 CUSTOMER P/N	容值CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 R.V. (VAC)	尺寸毫米為單位 Dimensions in mm							圖示 Fig.	產品型號 Manufacturer P/N
					寬W ±1.0	高 H ±1.0	厚T ±1.0	腳距P ±1.0	腳距S ±1.0	線徑ϕd ±0.05	腳長L Min		

產品編碼對照表 **PRODUCT CODE COMPARATIVE TABLE**

型號: TYPE: CKX X2

產品編碼 Product coding

J H 104 K 330 T 150 □□□

Internal Code

Dimension of Pitch in mm(腳距)
100:10mm, 150:15mm, 225:22.5mm, 275:27.5mm

Lead Shape(腳型): L, K, S(Bulk), T(Taped)

Rated Voltage(電壓): VAC

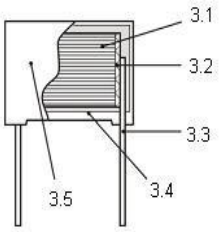
Capacitance Tolerance Code(容量誤差）
J：± 5% , K：±10% , M：±20%

Nominal Capacitance（ 電 容 量 ）
Describe in pF, the first two digitals are
significant figures, the third is the number of zeros to follow.

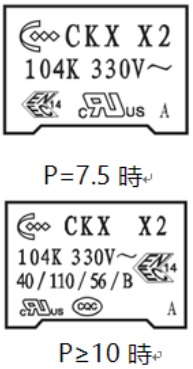
H = Halogen Free, A = Automotive grade, omit if not applicable “J”

Code = CKX X2.

NO.	項 目 ITEM	說 明 DESCRIPTIONS
1	承認范圍 SCOPE	本規格適用於CKX X2之要求 This specifications cover the requirements of product type CKX X2 金屬化聚丙烯薄膜 Metallized Polypropylene Film 交流電容器 (抑制電源電磁干擾用固定電容器/等級-X2) AC Capacitor (Interference Suppressors Class-X2).
2	各測量皆於標準大氣下進行 **STANDARD ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS**	
2.1	環境溫度 AMBIENT TEMPERATURE	15℃ 至 35℃ (如對結果有任何疑問，該測量環境溫度應為+20 ± 5℃之間) 15℃ to 35℃ (If there is any doubt on the results, the measurements shall be made at +20 ± 5℃)
2.2	相對溼度 RELATIVE HUMIDITY(R.H.)	45%至 75% (如對結果有任何疑問，該測量相對溼度應為 60% to 70%之間) 45%to 75% (If there is any doubt on the results, the measurements shall be made at 60% to 70%)
2.3	大氣壓力 AIR PRESSURE	86 千帕至 106 千帕之 86 kpa to 106 kpa
2.4	工作溫度范圍 OPERATING TEMPERATURE RANGE	於-40℃至+110℃間，電容可在額定電壓下持續運作 -40℃ to +110℃ for which the capacitor can be operated continuously at rated voltage.
3	結 構 **CONSTRUCTION**	
3.1	電介質 DIELECTRIC	金屬化聚丙烯薄膜 Metallized Polypropylene Film
3.2	噴金層 METAL SPRAY	特殊焊料 Special Solder
3.3	導線 LEAD WIRE	線徑 0.6/0.8/1.0mm LEAD WIRE DIAMETER 0.6/0.8/1.0mm
3.4	環氧樹脂 EPOXY RESIN	耐燃等級 UL 94V-0
3.5	塑料外殼 PLASTIC CASE	耐燃等級 UL 94V-0
4	打印 **MARKING**	
4.1	製造商標誌 MANUFACTURER'S SYMBOL	Manufacturer Symbol
4.2	型號或材質 TYPE OR MATERIAL	"CKX"代表"CKX"類型 "CKX" stands for "CKX" type
4.3	電容類別 CAPACITOR CLASS	"X2" 代表"X2"等級 "X2" stands for "X2" class
4.4	靜電容量 NOMINAL CAPACITANCE	容量用 EIA 三碼表示 Capacitance Expressed in 3-digit (EIA) code.
4.5	容量容許差值 TOLERANCE	J (±5%) , K(±10%) , M(±20%)
4.6	額定電壓 RATED VOLTAGE	交流電壓 330V/440V/480V in VAC rating. (50/60Hz)
4.7	電容氣候類別 / 阻燃等級 CLIMATIC CATEGORY	40/110/56/B or GLFB
4.8	國際認證 APPROVAL MARKS	cULus / ENEC / CQC
4.9	日期代碼 DATE CODE	A
4.10	製造番號 MANUFACTURE CODE	



範例 example



5	電氣特性 ELECTRICAL CHARACTERISTICS			
NO.	項 目 ITEM		說 明 DESCRIPTIONS	
5.1	耐 壓 (TV) Withstand Voltage	端子之間 Between Terminals	應無異常 Shall be no abnormality	施加 4.3 倍額定直流電壓測試 60 秒(電壓應以不超過 150V/s 的速率從零升高到試驗電壓，時間應從達到電壓時計算，在結束時，電壓應減少到接近零，並且電容器應通過一個適當的電阻放電) Apply 4.3*Ur (DC) for 60 sec (Should be no more than 150V/s rate increased from zero to the test voltage, testing time, meets the test voltage should be calculated at the end of the trial, the voltage should be reduced to zero and the capacitor through a resistor of appropriate discharge.
		端子與外殼之間 Between Terminals &Enclosure	應無異常 Shall be no abnormality	2 倍額定電壓+1,500VAC，測試 2 到 5 秒 最小值 2,000VAC Apply 2*Ur+1,500VAC for 2 to 5 sec. Min. 2,000VAC
5.2	介 質 損 耗 (DF) Dissipation Factor		於 1KHz 時 ≤ 0.001(0.1%) ≤ 0.001(0.1%) at 1 KHz	測量頻率: ±2% ;測量電壓: ≤1 Vrms Measuring Frequency: ±2% Measuring Voltage: ≤1 Vrms..
5.3	容 量 (CAP) Capacitance		偏差值如標示(於+20 ± 5℃)。 Within the tolerance specified (at +20 ± 5℃).	測量頻率: ±2% ;測量電壓: ≤1 Vrms Measuring Frequency: ±2% Measuring Voltage: ≤1 Vrms..
5.4	絕 緣 電 阻 (I.R.) Insulation Resistance		≥15,000 Mohm (C≤0.33uf) 容值≤0.33uf 時，絕緣電阻 ≥15,000MΩ ≥5,000 Mohm*uF/C (C>0.33uf) 容值>0.33uf 時，絕緣電阻 ≥5,000MΩ*uF / C	印加電壓 100 伏 充電時間 60±5 秒。 Vt=100 VDC Charge Time : 60±5 sec.
5.5	焊料附著性 Soldering Property		焊料覆蓋面積應超過導線表面圓周 90%。 More than 90% of circumferential surface of lead wire shall be covered with new solder.	焊接溫度為: +235 ± 5℃ 浸焊時間為: 2 ± 0.5 秒 Soldering temperature: +235 ± 5℃ Immersion duration: 2 ± 0.5 sec.
6	機械特性 MECHANICAL CHARACTERISTICS			
6.1	端子強度 Terminal Strength	引張強度 Tensile Strength	應無異常。 Shall be no abnormality	沿著軸向和引出方向，施加 1 公斤力量，保持 10±1 秒。 Apply 1.0Kg for 10 ± 1 sec. to the terminal in the axial direction and acting in a direction away from the body.

7	耐久性特性 ENDURANCE CHARACTERISTICS			
NO.	項 目 ITEM		說 明 DESCRIPTIONS	
7.1	溫度變化循環 Temperature Cycle	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	共 5 次溫度循環測試，循環條件: 1. +20 ± 2℃ 持續 3 分鐘 2. -40 ± 3℃ 持續 30 分鐘 3. +20 ± 2℃ 持續 3 分鐘 4. +110 ± 2℃ 持續 30 分鐘 5. +20 ± 2℃ 持續 3 分鐘 試驗後放置於室內1.5 ± 0.5 小時後再進行量測。 Test Temperature Cycle: Total 5 cycles. Each cycle includes 1. 20 ± 2℃ for 3 min. 2. -40 ± 3℃ for 30 min. 3. +20 ± 2℃ for 3 min. 4.+110 ± 2℃ for 30min. 5. +20 ± 2℃ for 3 min. After test, allow it stay alone for 1.5 ± 0.5 Hrs. at ordinary condition before making measurements.
		耐壓 Withstand Voltage	應 滿 足 NO.5.1 shall satisfy NO.5.1	
		容 值 變 化 率 (△C/C) Capacitance Change Rate	變化率小於 ±5% Within ±5% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕 緣 電 阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	
7.2	耐乾熱試驗 Dry Heat Resistance	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	試驗溫度: +110 ± 2℃ 測試時間: 16 + 1/-0 小時 Test Temperature: +110 ± 2℃ Test Duration: 16 + 1/-0 hrs.
		耐壓 Withstand Voltage	應 滿 足 NO.5.1 Shall satisfy NO.5.1	
		容 值 變 化 率 (△C/C) Capacitance Change Rate	變化率小於 ±5% Within ±5% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕 緣 電 阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	
7.3	耐乾寒試驗 Cold Resistance	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	試驗溫度: -40 ± 3℃ 測試時間: 2 ± 1 小時 Test Temperature: -40 ± 3℃ Test Duration: 2 ± 1 hrs.
		耐壓 Withstand Voltage	應 滿 足 NO.5.1 Shall satisfy NO.5.1	
		容 值 變 化 率 (△C/C) Capacitance Change Rate	變化率小於 ±5% Within ±5% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕 緣 電 阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	

NO.	項目 ITEM		說明 DESCRIPTIONS	
7.4	耐濕絕緣 Damp Heat	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	試驗溫度：+40 ± 2℃ 試驗濕度：90%至 95%相對濕度 試驗時間：56 天 試驗後放置於室內 1.5 ± 0.5 小時後再進行量測。 Test Temperature: +40 ± 2℃. Test Humidity: 90% to 95% R.H. Test Duration: 56 days. After test, allow it stay alone for 1.5 ± 0.5 Hrs. at ordinary condition before making measurements.
		耐壓 Withstand Voltage	應滿足 NO.5.1 Shall satisfy NO.5.1	
		容值變化率 (△C/C) Capacitance Change Rate	變化率小於±5% Within ±5% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕緣電阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	
7.5	振動試驗 Vibration Resistance	外觀 Appearance	應無機械性損傷 Shall be no mechanical damage.	頻率變化: 10-55-10Hz 振動距離: 1.5 毫米. 試驗方向: X,Y,Z 試驗時間:每個方向 2+1/-0 小時 Frequency Change : 10-55-10 Hz Vibration Distance:1.5 mm. Test Direction : X,Y,Z Test Duration : 2+1/-0 hrs each direction
		連接強度 Connection strength	不得為短路或開路連接。 連接點應穩定。 Shall be no short-circuiting or open. The connection shall be stable.	
7.6	焊接耐熱 Soldering Heat Resistance	外觀 Appearance	應當無顯著變化 印字標誌應清晰 Shall be no remarkable change. The marking shall be legible.	預熱溫度: 100 ~120℃ 預熱時間:最大為 60 秒 溫度升高:最大為 3℃/秒 錫爐溫度: +260 ± 5℃ 浸焊時間: 5 ± 1 秒 浸焊深度:導線根部 4 ± 0.8 毫米 試驗後放置於室內 1.5 ± 0.5 小時後再進行量測。 Preheat Temp. : 100~120℃ Preheat Duration : 60 sec. max. Temperature Increase by 3℃/sec. max. Soldering Temperature : +260 ± 5℃ Immersion Duration : 5 ± 1sec. Immersion Depth : 4 ± 0.8mm from roots. After test, allow it stay alone for 1.5 ± 0.5 Hrs. at ordinary condition before making measurements.
		端子間的耐電壓值 Withstand Voltage Between Terminals	應滿足 NO.5.1 Shall satisfy NO.5.1	
		容值變化率 (△C/C) Capacitance Change Rate	變化率小於 ±3% Within ±3% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕緣電阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	
		連接元件 Connection of Element	應穩定 Shall be stable	

產 品 規 格 說 明
PRODUCT SPECIFICATIONS

NO.	項 目 ITEM		性能 PERFORMANCE	測試條件 TEST CONDITIONS
7.7	耐久壽命 Endurance	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	試驗溫度: +110 ± 2℃ 測試電壓: 1.25 倍的額定電壓 試驗時間: 1,000 小時 每小時將電壓升至 1,000VAC，持續 0.1 秒 每個電容分別通過一個 47Ω±5 %.電阻。 Test Temperature: +110 ± 2℃ Test Voltage: 1.25 times* rated voltage. Test Duration: 1,000 Hrs. Once every hour the voltage is increased to 1000 V rms. For 0.1 sec. The test voltage is applied to each capacitor individually through a resistor of 47Ω±5 %.
		耐壓 Withstand Voltage	應 滿 足 NO.5.1 Shall satisfy NO.5.1	
		容 值 變 化 率 (△C/C) Capacitance Change Rate	變化率小於 ±10% Within±10% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為@ 1KHz Cr ≤1uF : 0.008 (0.8%) max. Cr >1uF : 0.005 (0.5%) max.	
		絕 緣 電 阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	
7.8	耐濕負荷 Moisture Resistant Loading	外觀 Appearance	應當無顯著變化 Shall be no remarkable change	試驗溫度: +40 ± 2℃. 試驗濕度: 87%至 93%相對濕度 測試電壓: 額定電壓 試驗時間: 500 小時 試驗後放置於室內 1.5 ± 0.5 小時後再進行量測。 Test Temperature: +40 ± 2℃. Test Humidity: 87% to 93% R.H. Test Voltage: rated voltage. Test Duration: 500 Hrs. After test, allow it stay alone for 1.5 ± 0.5 Hrs. at ordinary condition before making measurements.
		耐壓 Withstand Voltage	應 滿 足 NO.5.1 Shall satisfy NO.5.1	
		容 值 變 化 率 (△C/C) Capacitance Change Rate	變化率小於 ±5% Within ±5% of the value before test	
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 0.002 (0.2%) @ 1KHz: 0.002 (0.2%) max.	
		絕 緣 電 阻 (I.R.) Insulation Resistance	≥50%的限制值在NO.5.4 ≥50% of the limit value of NO.5.4	

產 品 安 規 認 証
PRODUCT SAFETY APPROVALS

標 誌 Mark	認證單位 Agent	應用標準 Standard	規格範圍 Specification	證書號碼 Certificate No.
c UL us	美國 / 加拿大 UL / CUL	UL 60384 CSA E60384-14	X1/ X2, 275/ 300/310/ 330/440/480 VAC/1500VDC 0.001uF to 10.0uF X2/ 275/300/310/330VAC/1500VDC 0.001uF to 55.0uF	E209251
EN EC 14	歐 盟 ENEC-SEMKO	EN 60384-14:2013 (ed.4)	X1/ X2, 275/ 300/310/ 330/440/480 VAC/1500VDC 0.001uF to 10.0uF X1/ X2,275/300/310/330VAC/1500VDC 0.001uF to 55.0uF	SE-ENEC-2002177R1
CQC	中 國 CQC	IEC 60384-14: 2013	X1/ X2, 275/ 300/310/ 330/440/480 VAC 0.001uF to 10.0uF X2/ 275/300/310/330VAC 0.001uF to 55.0uF	CQC13001099627

產品尺寸表

PRODUCT SIZE TABLE

容值 CAP. (uF)	標志 Symbol	電壓 Voltage	寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳 距 P ±1.0	線徑d ±0.05	殼碼 Shell code
0.0010	102	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0015	152	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0022	222	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0027	272	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0033	332	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0039	392	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0047	472	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0056	562	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0068	682	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.0082	822	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1

產品尺寸表

PRODUCT SIZE TABLE

容值 CAP. (uF)	標志 Symbol	電壓 Voltage	寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳 距 P ±1.0	線徑d ±0.05	殼碼 Shell code
0.010	103	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.012	123	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.6	D1
0.015	153	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		440V/480V	10.5	12.0	6.0	7.5	0.6	B15LT
		330V/440V/480V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V/440V/480V	18.0	11.0	5.0	15.0	0.6	D1
0.018	183	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V/440V/480V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V/440V/480V	18.0	11.0	5.0	15.0	0.6	D1
0.022	223	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V/440V/480V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V/440V/480V	18.0	11.0	5.0	15.0	0.6	D1
0.027	273	330V	10.0	9.0	4.0	7.5	0.6	B3-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		440V/480V	13.0	12.0	6.0	10.0	0.6	C3
		330V/440V/480V	18.0	11.0	5.0	15.0	0.6	D1
0.033	333	330V	10.5	11.0	5.0	7.5	0.6	B12-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		440V/480V	13.0	12.0	6.0	10.0	0.6	C3
		330V/440V/480V	18.0	11.0	5.0	15.0	0.6	D1
0.039	393	330V	18.0	11.0	5.0	15.0	0.6	D1
0.047	473	330V	10.5	11.0	5.0	7.5	0.6	B12-LT
		330V	13.0	11.0	5.0	10.0	0.6	C2-3
		330V	18.0	11.0	5.0	15.0	0.8	D1
		440V/480V	13.0	14.0	8.0	10.0	0.6	C5-1LT
		440V/480V	18.0	12.0	6.0	15.0	0.8	D2
0.056	563	330V	13.0	11.0	5.0	10.0	0.6	C2-3
		440V/480V	13.0	14.0	8.0	10.0	0.6	C5-1LT
		330V	18.0	11.0	5.0	15.0	0.6	D1
		440V/480V	18.0	13.5	6.0	15.0	0.8	D2-1

產品尺寸表

PRODUCT SIZE TABLE

容值CAP. (uF)	標志 Symbol	電壓 Voltage	寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳 距 P ±1.0	線徑d ±0.05	殼碼 Shell code
0.068	683	330V	10.5	12.0	6.0	7.5	0.6	B15LT
		330V	13.0	12.0	6.0	10.0	0.6	C3
		330V	18.0	11.0	5.0	15.0	0.8	D1
		440V/480V	17.0	15.5	7.5	15.0	0.8	C6-1
0.082	823	330V	13.0	12.0	6.0	10.0	0.6	C3
		330V	17.5	11.0	5.5	15.0	0.8	C6
		440V/480V	17.0	15.5	7.5	15.0	0.8	C6-1
0.10	104	330V	11.0	13.5	8.5	7.5	0.6	B3
		330V	13.0	12.0	6.0	10.0	0.6	C3
		330V	17.5	11.0	5.5	15.0	0.8	C6
		440V/480V	17.0	15.5	7.5	15.0	0.8	C6-1
		330V/440V/480V	25.0	14.5	6.0	22.5	0.8	E1-2
0.12	124	330V	18.0	12.0	6.0	15.0	0.8	D2
		330V	25.0	14.5	6.0	22.5	0.8	E1-2
0.15	154	330V	13.0	14.0	8.0	10.0	0.6	C5-1LT
		330V	18.0	12.0	6.0	15.0	0.8	D2
		440V/480V	18.0	15.0	9.0	15.0	0.8	D10
		330V	25.0	14.5	6.0	22.5	0.8	E1-2
		440V/480V	26.5	16.5	7.0	22.5	0.8	E2
0.18	184	330V	18.0	13.5	6.0	15.0	0.8	D2-1
0.22	224	330V	13.0	14.0	8.0	10.0	0.6	C5-1LT
		330V	17.0	15.5	7.5	15.0	0.8	C6-1
		330V	25.0	14.5	6.0	22.5	0.8	E1-2
		440V/480V	26.0	17.0	8.5	22.5	0.8	E3
		440V/480V	32.0	18.0	9.0	27.5	0.8	F5 WZ
0.27	274	330V	17.0	16.5	9.5	15.0	0.8	C7
		330V	26.5	16.5	7.0	22.5	0.8	E2
		440V/480V	26.5	19.0	10.0	22.5	0.8	E4
		440V/480V	32.0	18.0	9.0	27.5	0.8	F5 WZ
0.33	334	330V	18.0	14.5	8.5	15.0	0.8	D4
		330V	26.5	16.5	7.0	22.5	0.8	E2
		440V/480V	26.0	20.0	11.0	22.5	0.8	E5

產品尺寸表

PRODUCT SIZE TABLE

容值 CAP. (uF)	標志 Symbol	電壓 Voltage	寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳 距 P ±1.0	線徑d ±0.05	殼碼 Shell code
0.39	394	330V	26.0	17.0	8.5	22.5	0.8	E3
		440V/480V	26.0	20.0	11.0	22.5	0.8	E5
0.47	474	330V	17.0	16.5	9.5	15.0	0.8	C7
		330V	26.0	17.0	8.5	22.5	0.8	E3
		440V/480V	26.0	21.5	12.0	22.5	0.8	E6 WZ
		440V/480V	32.0	20.0	11.0	27.5	0.8	F1
0.56	564	330V	18.0	18.5	11.0	15.0	0.8	D6
		330V	26.5	16.5	7.0	22.5	0.8	E2
		440V/480V	26.0	21.5	12.0	22.5	0.8	E6 WZ
		440V/480V	26.5	23.0	13.0	22.5	0.8	E7
		330V	32.0	20.0	11.0	27.5	0.8	F1
		440V/480V	30.0	21.0	11.8	27.5	0.8	F1-1
0.68	684	330V	18.0	18.5	11.1	15.0	0.8	D6
		330V	26.0	17.0	8.5	22.5	0.8	E3
		440V/480V	26.0	25.0	15.0	22.5	0.8	E24LT
		330V	31.4	19.5	10.8	27.5	0.8	F1
		440V/480V	31.0	25.0	14.0	27.5	0.8	F3
0.82	824	330V	18.0	18.5	11.1	15.0	0.8	D6
		330V	26.5	19.0	10.0	22.5	0.8	E4
		330V	31.4	19.5	10.8	27.5	0.8	F1
		440V/480V	31.0	25.0	14.0	27.5	0.8	F3
1.0	105	330V	26.5	19.0	10.0	22.5	0.8	E4
		330V	32.0	18	9.0	27.5	0.8	F5 WZ
		440V/480V	32.0	25.5	16.0	27.5	0.8	F32
		440V/480V	41.0	24.0	13.0	37.5	1.0	H2 W2
1.2	125	440V/480V	32.0	28.0	18.0	27.5	0.8	F13-5
1.5	155	330V	25.0	23.5	14.0	22.5	0.8	E8
		330V	31.5	21.6	13.0	27.5	0.8	F2
		440V/480V	32.0	28.0	18.0	27.5	0.8	F13-5
		440V/480V	31.0	31.0	22.0	27.5	0.8	F8
		330V	36.0	24.0	13.5	32.5	0.8	TB-29
		440V/480V	41.5	30.0	17.0	37.5	1.0	J18
1.8	185	440V/480V	32.0	37.0	22.0	27.5	0.8	F16
		440V/480V	41.5	30.0	17.0	37.5	1.0	J18

產品尺寸表

PRODUCT SIZE TABLE

容值 CAP. (uF)	標志 Symbol	電壓 Voltage	寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳 距 P ±1.0	線徑d ±0.05	殼碼 Shell code
2.2	225	330V	26.0	25.0	15.0	22.5	0.8	E24LT
		330V	31.0	25.0	14.0	27.5	0.8	F3
		440V/480V	32.0	37.0	22.0	27.5	0.8	F16
		330V	37.0	26.5	16.0	32.5	0.8	H2
		330V	41.0	24.0	13.0	37.5	1.0	H2 W2
		440V/480V	42.0	33.5	18.5	37.5	1.0	M041 (YD337)
2.7	275	440V/480V	42.5	37.0	22.0	37.5	1.0	H6(M034)
3.3	335	330V	32.0	28.0	18.0	27.5	0.8	F13-5
		330V	41.5	30.0	17.0	37.5	1.0	J18
		440V/480V	42.5	37.0	22.0	37.5	1.0	H6(M034)
3.9	395	330V	42.0	33.5	18.5	37.5	1.0	M041 (YD337)
		440V/480V	41.5	41.0	27.5	37.5	1.0	M035
4.7	475	330V	31.0	33.0	18.0	27.5	0.8	F12
		330V	41.5	30.0	17.0	37.5	1.0	J18
		330V	51.0	30.5	20.0	47.5	1.0	H3-2
		440V/480V	41.5	45.0	30.0	37.5	1.0	M053
6.8	685	330V	42.5	37.0	22.0	37.5	1.0	H6(M034)
		440V/480V	57.5	45.0	30.0	52.5	1.2	DS013
8.2	825	330V	42.5	37.0	22.0	37.5	1.0	H6(M034)
		440V/480V	57.5	45.0	30.0	52.5	1.2	DS013
10.0	106	330V	41.5	41.0	27.5	37.5	1.0	M035
		440V/480V	57.5	50.0	35.0	52.5	1.2	M022

TAPIING SPECIFICATION
編帶規格書

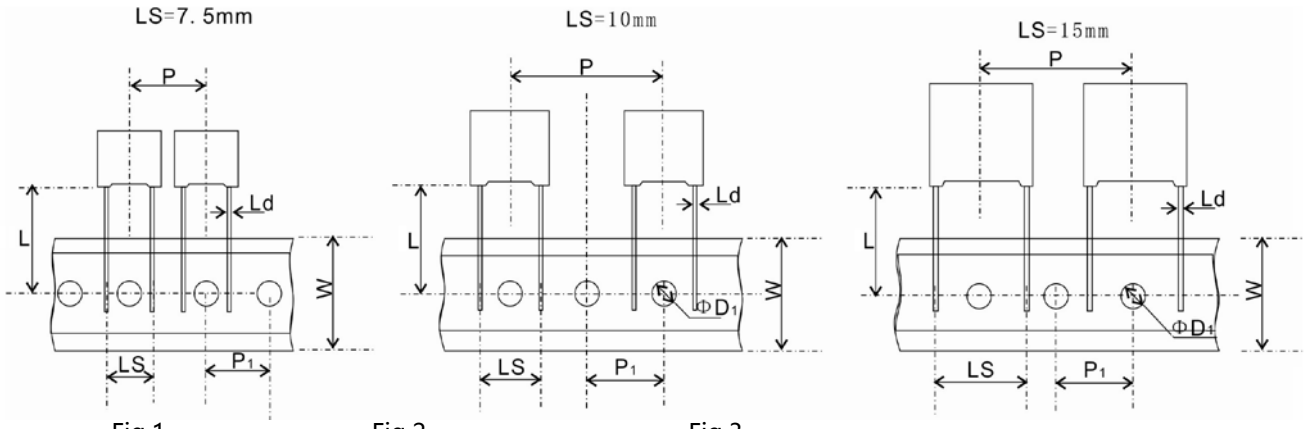


Fig.1 Fig.2 Fig.3

Description	Symbol	7.5mm	10mm	15mm	Tol.
		Fig.1	Fig.2	Fig.3	
Lead wire diameter	Ld	0.6	0.6	0.6/0.8	±0.1
taping pitch	P	12.7	25.4	25.4	±1.5
feed hole pitch	P_1	12.7	12.7	12.7	±0.3
lead spacing(pitch)	LS	7.5	10	15	±1.0
height of component from tape center	L	18.5	18.5	18.5	±1.0
carrier tape width	W	18	18	18	±1.0
feed hole diameter	ΦD_1	4	4	4	±0.3

Guideline Of Notabilia For The Usage Of Plastic Film Capacitors
塑膠薄膜電容器的使用上注意事項及指導

Plastic film capacitors use organic films for their dielectrics, thus the capacitors may fume of flame, depending on the circuit conditions they are in, when they are damaged by applying over-voltage or over-current.

塑膠薄膜電容器使用有機薄膜為介質，當使用超過額定電壓及額定電流，可能產生火焰，導致電容損壞，故請使用於正確的迴路。

1. Circuit Design 迴路設計

① Please use capacitors within the range of their characteristic ratings, only after confirming their operating and mounting environments.
請確認電容器的使用範圍僅止於明定之額定特性規範，請先確認電容器使用之環境是否符合規範。

② In case of selecting a capacitor, please select the most suitable one which fits to your operating conditions.
請依照適合的作業條件選擇相對應的電容器使用。

③ Capacitors used for Across-The-Line, Line-By-Pass and Antenna-Coupling to suppress noises in an equipment, the capacitors need to be approved by overseas Safety Standards or 'Electric Appliance and Material Control' by Ministry of international Trade and Industry.
電容器用於跨接，旁路迴路及天線耦合等抑制噪音的裝置，需通過海外安全標準或日本通商產業省之電器用品安全法。

④ An applying voltage to a capacitor, including the peak of surge and ripple voltage (D.C. voltage + A.C. Peak), cannot be exceeded the rating voltage.
電容器之應用電壓，包括突波和紋波電壓的峰值(直流電壓+交流峰值)不可超過額定電壓。

⑤ Do not apply a current over its permissible level. Also, make sure the check the surrounding temperature and inherent temperature rise of a capacitor since a permissible current can be restricted by those factors.
切勿使用超出電容器可承載之電流並檢查電容器周圍之溫度，因有許多因素會影響電流之變化，進而造成電容器之溫度上升。

⑥ Please contact Chiefcon for further details, if mechanical resonance (hum) occurs to a capacitor.
如電容器的發出共振(嗡嗡)之噪音時，請與錞谷電子聯繫。

⑦ Do not conduct a rapid charge and discharge to a capacitor which may lead to characteristics degradations or break down of the capacitor.
請不要對電容器進行快速的充電和放電，此可能會導致電容器之特性退化或損壞。

2. Mounting 安 裝

① Do not apply any exceeding tension or torsion to lead wires of a capacitor, during the mounting process.
請不要使用任何超過電容導線可承受之張力進行插件。

② Please mount a capacitor where it dose not contact any other heating parts, high voltage parts and other parts.
請確認電容器使用環境，避免接觸任何其他升溫熱物件,高壓和其他部分料件。

③ Please conduct soldering process by strictly following the specified conditions.
進行焊接過程實，請嚴格遵循指定之焊接條件。

3. Case of an emergency 緊急情況

① If a fuming, a flaming or an usual smell occurs from an equipment during its usage, please cut off the power supply by switching it off, pulling the plug out or other methods.
如使用設備有冒煙，火花或冒出不尋常之氣味，請切斷電源，拔掉插頭或以其它方法關閉設備。

4. Storing and handling 儲存和處理

① A storage needs to be kept indoors at -10 ~ +40℃ and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around.
需保存於-10 ~ 40℃，相對濕度低於75%並確保沒有任何突然的溫度變化，避免直接陽光之曝曬及接觸腐蝕性氣體之環境。

② Do not apply and exceeding vibration, shock (dropping) and pressure.
不應過度震動、碰撞和及外力的衝擊。

5. Rejection 報 廢

① In case of rejecting capacitors, please seek for professionals who deal with the industrial wastes treatments.
對於報廢電容器，請找處理工業廢品之專業人士處理。