

承认书

APPROVAL SHEET

客户 CUSTOMER	立创商城
客户料号 CUSTOMER P/N	
规格描述 DESCRIPTION	1.5KV/1.5UF/K/F27.5/直脚/L16/灰色/32*22*37/ZNRC
产品编码 PART NUMBER	CX13N155KL1EHF210200
日期 DATE	2026-06-10

德尔创承认栏 APPROVED BY DERSONIC			客户承认栏 APPROVED BY CUSTOMER	
批 准 APPROVED BY	审 核 CHECK BY	制订 FORMULATE BY	批 准 APPROVED BY	审 核 CHECK BY
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產品尺寸圖 PRODUCT DIMENSIONS

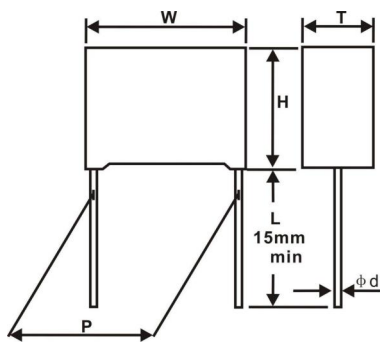


Fig. 1

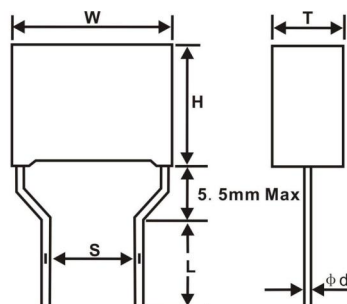


Fig. 2

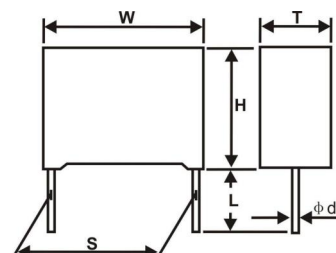


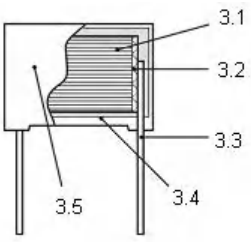
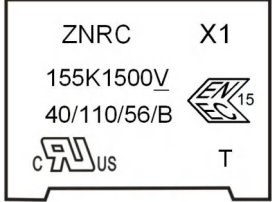
Fig. 3

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Marking see Page 2

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產品規格說明

PRODUCT SPECIFICATIONS

NO.	項目 ITEM	說明 DESCRIPTIONS
1	承認範圍 SCOPE	金屬化聚丙烯薄膜 Metallized Polypropylene Film 直流電容器 (等級-X1) DC Capacitor (Class-X1).
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°C 至 35°C (如對結果有任何疑問, 該測量環境溫度應為+20 ± 5°C之間) 15°C to 35°C (If there is any doubt on the results, the measurements shall be made at +20 ± 5°C)
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	工作溫度範圍 OPERATING TEMPERATURE RANGE	於-40°C至+110°C間, 電容可在額定電壓下持續運作 -40°C to +110°C 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 0.8mm LEAD WIRE DIAMETER 0.8mm
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	“ZNRC”代表“ 東莞市德爾創電子有限公司”
4.2	電容類別 CAPACITOR CLASS	“X1” 代表“X1”等級 “X1 stands for “X1” class
4.3	靜電容量 NOMINAL CAPACITANCE	容量用 EIA 三碼表示 Capacitance Expressed in 3-digit (EIA) code.
4.4	容量容許差值 TOLERANCE	J (±5%), K(±10%), M(±20%)
4.5	額定電壓 RATED VOLTAGE	直流電壓 1500V in VDC rating.
4.6	電容氣候類別 / 阻燃等級 CLIMATIC CATEGORY	40/110/56/B or GLFB
4.7	國際認證 APPROVAL MARKS	cULus / ENEC
4.8	日期代碼 DATE CODE	T
範例 example 		

產品規格說明

PRODUCT SPECIFICATIONS

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 abnormalit				施加 530VAC 的 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) ARC=OFF Apply 530 VAC the 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. ARC=OFF				
		端子與外殼之間 Between Terminals &Enclosure	應無異常 Shall be no abnormality				2,560VAC 測試 60 秒. 2,560VAC test for 60 seconds				
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.				
5.6	dV/dt and k0 values	Lead spacing	7.5 mm	10 mm	15 mm	22.5 mm	25.4 mm	27.5 mm	37.5 mm	52.5 mm	
		dV/dt in V/μs	550	450	400	200	160	150	100	40	
		k0 in V2/μs	473 000	387 000	344 000	172 000	135 000	129 000	86 000	34 400	
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.				

產品規格說明

PRODUCT SPECIFICATIONS

7	耐久特性 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. $+20 \pm 2^{\circ}\text{C}$ 持續 3 分鐘 2. $-40 \pm 3^{\circ}\text{C}$ 持續 30 分鐘 3. $+20 \pm 2^{\circ}\text{C}$ 持續 3 分鐘 4. $+110 \pm 2^{\circ}\text{C}$ 持續 30 分鐘 5. $+20 \pm 2^{\circ}\text{C}$ 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. $+20 \pm 2^{\circ}\text{C}$ for 3 min. 2. $-40 \pm 3^{\circ}\text{C}$ for 30 min. 3. $+20 \pm 2^{\circ}\text{C}$ for 3 min. 4. $+110 \pm 2^{\circ}\text{C}$ for 30 min. 5. $+20 \pm 2^{\circ}\text{C}$ 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 ($\Delta C/C$) Capacitance Change Rate	變化率小於 $\pm 5\%$ Within $\pm 5\%$ 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	$\geq 50\%$ 的限制值在 NO.5.4 $\geq 50\%$ 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: $+110 \pm 2^{\circ}\text{C}$ 測試時間: $16 \pm 1/-0$ 小時 Test Temperature: $+110 \pm 2^{\circ}\text{C}$ Test Duration: $16 \pm 1/-0$ hrs.
		耐壓 Withstand Voltage	應滿足 NO.5.1 Shall satisfy NO.5.1	
		容值變化率 ($\Delta C/C$) Capacitance Change Rate	變化率小於 $\pm 5\%$ Within $\pm 5\%$ 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	$\geq 50\%$ 的限制值在 NO.5.4 $\geq 50\%$ 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: $-40 \pm 3^{\circ}\text{C}$ 測試時間: 2 ± 1 小時 Test Temperature: $-40 \pm 3^{\circ}\text{C}$ 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 ($\Delta C/C$) Capacitance Change Rate	變化率小於 $\pm 5\%$ Within $\pm 5\%$ 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	$\geq 50\%$ 的限制值在 NO.5.4 $\geq 50\%$ of the limit value of NO.5.4	

產品規格說明

PRODUCT SPECIFICATIONS

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 (ΔC/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 (ΔC/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

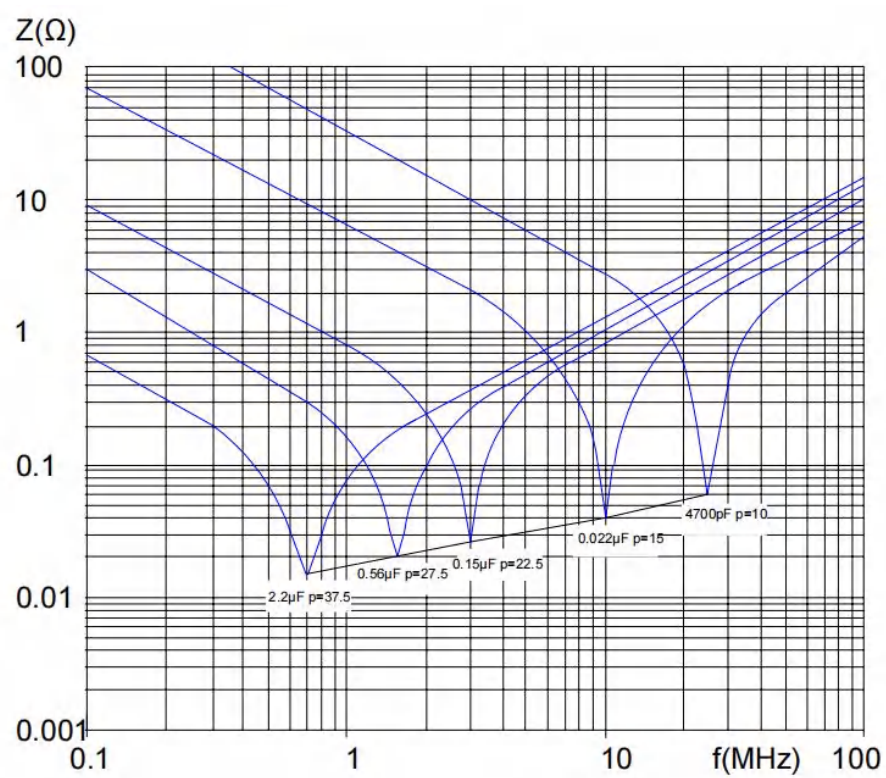
PRODUCT SPECIFICATIONS

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
		耐壓 Withstand Voltage	應滿足 NO.5.1 Shall satisfy NO.5.1
		容值變化率 ($\Delta C/C$) Capacitance Change Rate	變化率小於 $\pm 10\%$ Within $\pm 10\%$ of the value before test
		介質損耗 Dissipation Factor	於 1KHz 時: 最大值為 @ 1KHz Cr $\leq 1\mu F$: 0.008 (0.8%) max. Cr $> 1\mu F$: 0.005 (0.5%) max.
		絕緣電阻 (I.R.) Insulation Resistance	$\geq 50\%$ 的限制值在 NO.5.4 $\geq 50\%$ 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
		耐壓 Withstand Voltage	應滿足 NO.5.1 Shall satisfy NO.5.1
		容值變化率 ($\Delta C/C$) Capacitance Change Rate	變化率小於 $\pm 5\%$ Within $\pm 5\%$ 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	$\geq 50\%$ 的限制值在 NO.5.4 $\geq 50\%$ of the limit value of NO.5.4

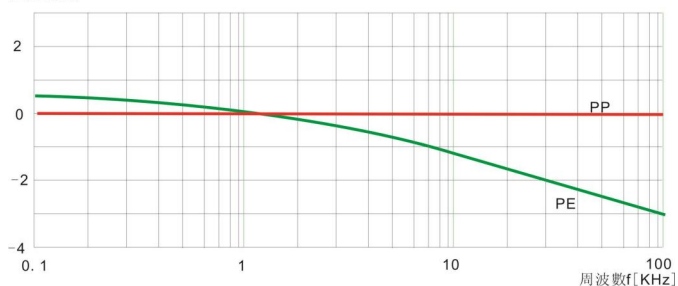
產品安規認證

PRODUCT SAFETY APPROVALS

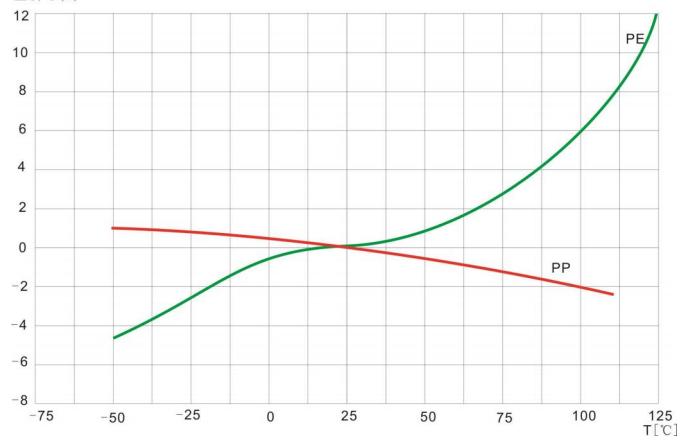
標誌 Mark	認證單位 Agent	應用標準 Standard	規格範圍 Specification	證書號碼 Certificate No.
	美國/加拿大 UL/CUL	UL 60384 CSA E60384-14	X1/ X2, 275/ 300/310/ 330/440/480 VAC/1500VDC 0.001uF to 10.0uF X2/ 275/300/310/330VAC/1500VDC 0.001uF to 55.0uF	E209251
	歐盟 ENEC-Demko	EN IEC 60384-14:2023	X1/X2, 0.001uF to 10uF, 275/300/310/330/350/380/440/480Vac, 50/60Hz, Max. 1500Vdc	ENEC-05684



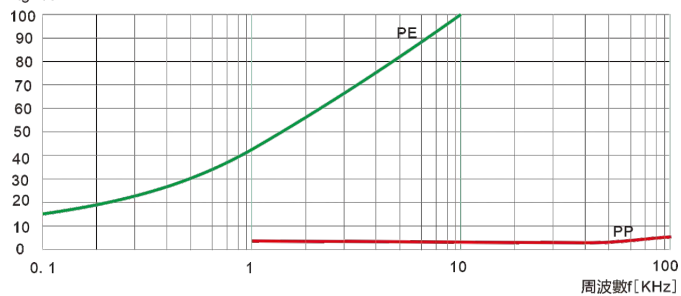
容量變化
Capacitance change
 $\Delta C/C(\%)$



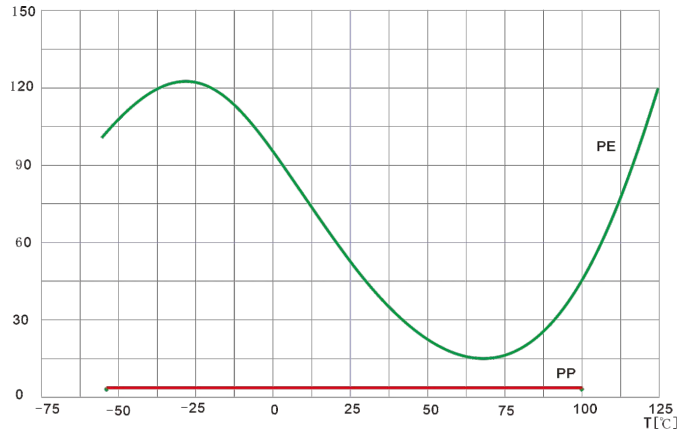
容量變化
Capacitance change
 $\Delta C/C(\%)$



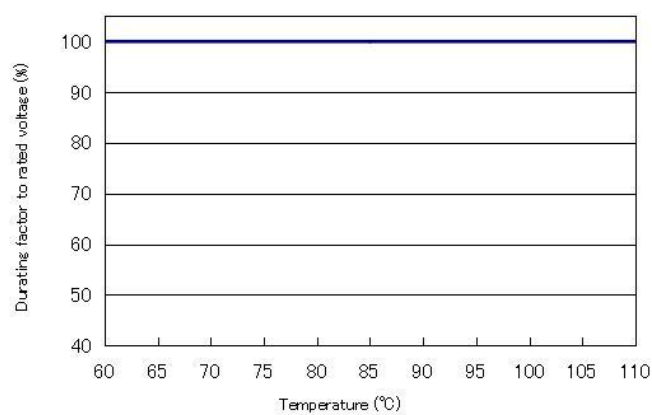
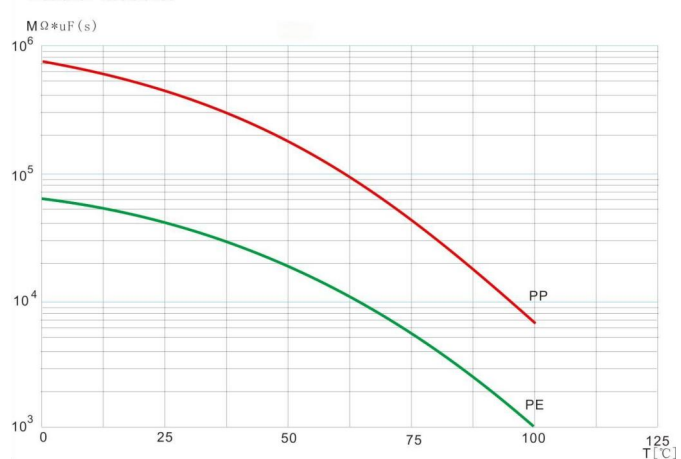
誘電正切
Dissipation Factor
 $\text{tg} \times 10^{-4}$



誘電正切
Dissipation Factor
 $\text{tg} \times 10^{-4}$



絕緣阻抗
Insulation Resistance



1 Soldering suggestions - 焊接的建議

When soldering a capacitor, heat in soldering is conducted to the element of the capacitor from wire lead and an enclosure, and hence it should be noted that soldering under high temperature and a long period may cause deterioration of breakdown of capacitors. characteristic or Be sure to solder within the following temperature condition range.

當焊接電容器時,焊錫熱會通過引線端子高溫和封裝層傳遞到電容器素子,因此必須注意高溫和長時間焊接引起的電容器特性衰減或損壞,請確認焊錫在以下溫度範圍內。

T_s : Capacitor body maximum temperature at wave soldering

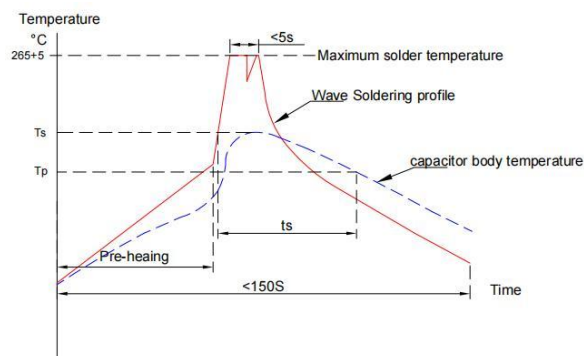
電容器本體最高波峰焊溫度

T_p : Capacitor body maximum temperature at pre-heating

電容器本體最高預熱溫度

Body temperature should follow the description below:

電容器本體溫度應該符合以下描述



Polypropylene film capacitor 聚丙烯薄膜電容器

During pre-heating: $T_p \leq 110^\circ\text{C}$

During soldering: $T_s \leq 120^\circ\text{C}$, $t_s \leq 45\text{s}$

加熱溫度: $T_p \leq 110^\circ\text{C}$

焊接溫度: $T_s \leq 120^\circ\text{C}$, $t_s \leq 45\text{s}$

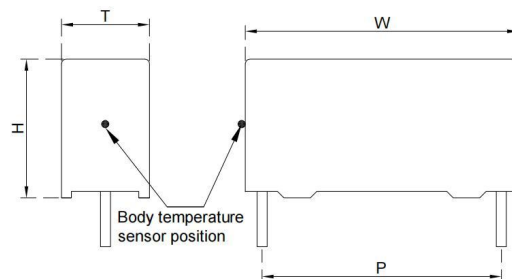
Polyester film capacitor 聚酯薄膜電容器

During pre-heating: $T_p \leq 125^\circ\text{C}$

During soldering: $T_s \leq 160^\circ\text{C}$, $t_s \leq 45\text{s}$

加熱溫度: $T_p \leq 125^\circ\text{C}$

焊接溫度: $T_s \leq 160^\circ\text{C}$, $t_s \leq 45\text{s}$



- Remark: When the thickness of the finished capacitor $T \leq 5\text{mm}$, please appropriately increase the chain speed, reduce the preheating time and lower the preheating temperature to avoid damage to the capacitor core by heat conduction.

備註: 當電容器成品厚度 $T \leq 5\text{mm}$ 時, 請適當加快鏈速和預熱時間, 降低預熱溫度, 以避免熱傳導致電容芯子受損。

- When SMD components are used together with leaded ones, the film capacitors should not pass into the SMD adhesive curing oven.

The leaded components should be assembled after the SMD curing step.

當SMD元件與引腳式元件一起使用時, 薄膜電容器不應進入SMD粘合劑固化爐。引腳式部件應在SMD固化步驟之後組裝。

- Leaded film capacitors are not suitable for reflow soldering.

引腳式薄膜電容器不適合回流焊

- In order to ensure proper conditions for manual or selective soldering, the body temperature of the capacitor (T_s) must be $\leq 120^\circ\text{C}$.

為了確保手動或選擇性焊接的適當條件, 電容器(T_s)的本體溫度必須是 $\leq 120^\circ\text{C}$ 。

- One recommended condition for manual soldering is that the tip of the soldering iron should be $< 360^\circ\text{C}$ and the soldering contact time should be no longer than 3 seconds.

手工焊接的一個推薦條件是烙鐵的頂端應該是 $< 360^\circ\text{C}$, 焊接接觸時間不應超過3秒。

- For uncoated MPE capacitors with lead spacings $\leq 10\text{mm}$ the following measures are recommended:

未塗覆的MPE電容器引線間隔為 $\leq 10\text{mm}$, 建議採取以下措施

1. pre-heating to not more than 110°C in the preheater phase 預熱階段預熱溫度不超過 110°C
2. rapid cooling after soldering 焊後快速冷卻

- If re-work or dipping twice in necessary, it should be done after the capacitor returned to the normal temperature. Suggestion time is 24 hours.

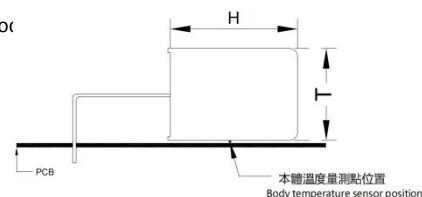
如果需要焊接兩次, 第二次焊接必須等到電容器恢復到常溫。建議時間24小時。

- The body temperature sensor position is define as the highest temperature point around the capacitor box

If there is 90 degree bending product, the sensor position shall be between product and PCB.

本體溫度測試點定義為, 電容器本體四周最高溫度點。如有90度折彎平躺產品

本體溫度測試點應在產品與PCB交接處量測, 如圖所示。



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 or 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 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。
- ⑦ When testing the product, turn off the ARC of the test device
測試產品時，請關閉測試設備的ARC

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°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around.
需保存於-10 ~ 40°C，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。