



久亦電子有限公司

JOEY ELECTRONICS CO., LTD.

塑膠薄膜電容器規格承認書

SPECIFICATION OF PLASTIC FILM CAPACITOR FOR APPROVAL

客 戶 名 稱 : _____
(Customer)
項 目 : _____
(Item) **PPS系列**
客 戶 料 號 : _____
(Customer Part No)
久 亦 料 號 : _____
(Joey Parts No)
送 樣 日 期 : _____
(Date) **22.06.29**
備 注 : _____
(Remark)

CUSTOMER APPROVAL 廠商認可

請確認後簽回，若不簽回，視同默認。

PLEASE SIGNATURE AFTER CHECKING , NO SIGNATURE IS EQUAL PRETERMIT.

承認章 (Approved By)

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| 承認章 (Approved By) |
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廣東省東莞市企石鎮舊圍村東湖路1號2號樓201室

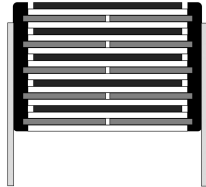
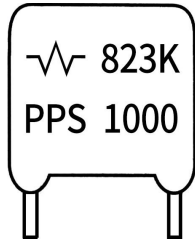
Room 201, Building 2, No. 1, Donghu Road, Jiuwei Village, Qishi Town, Dongguan, Guangdong

TEL : 0769 - 83729966 FAX : 0769 - 83729969



高壓金屬化帶箔式聚丙烯膜電容器 (浸漬型)

High-voltage metallized polypropylene film / foil capacitor (dipped-type)



- 鋁膜 / Aluminium film
- 聚丙烯膜 / Polypropylene film
- 金屬化聚丙烯膜 / Metallized polypropylene film
- 金屬噴塗層 / Metal spray layer
- 引腳 / Connecting wire

特點：

- # 金屬化聚丙烯膜箔式，串聯結構
- # 高頻損耗小
- # 阻燃環氧粉末包封 (UL94/V-0)
- # 高脈衝強度

Features：

- # Metallized polypropylene film / foil capacitor , internal series construction
- # Low dissipation factor at high frequency
- # Flame retardant epoxy resin powder coating (UL94/V- 0)
- # Very high pulse strength

主要用途：

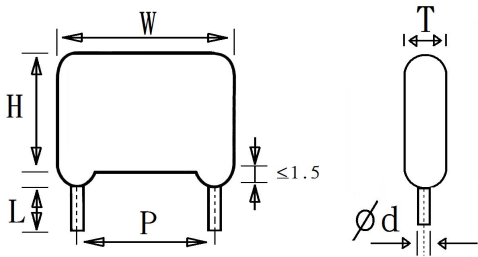
- # 適用於高脈衝，大電流電路
- # 電子鎮流器和開關電源電路

Typical Application：

- # Suitable for high pulse and high current lading circuit
- # Suitable for electronic ballast and switching power supply circuits

技術要求 Specifications

| | | | |
|--|---|--------------|--------|
| 引用標準 / Reference Standard | GB/T 14579 (IEC 60384-17) | | |
| 額定溫度 / Rated Temperature | 85°C | | |
| 工作溫度範圍 Operating Temperature Range | - 40°C ~ +105°C (+ 85°C ~ +105°C : decreasing factor 1.25% per °C for UR) | | |
| 額定電壓 / Rated Voltage | 630V, 800V, 1000/1250V, 1600V , 2000V, 2500V | | |
| 容量範圍 / Capacitance Range | 0.001uF ~ 0.036uF | | |
| 電容量偏差 / Capacitance Tolerance | ±3% (H) , ±5% (J) , ±10% (K) | | |
| 耐電壓 / Voltage proof | 1.6U _R (2S) | | |
| 損耗角正切 / Dissipation Factor | ≤ 0.1% (1KHz , 20°C) | | |
| 絕緣阻抗 / Insulation Resistance | 30 000MΩ for C ≤ 0.33uF (20°C , 100V , 1min) | | |
| 最大脈衝爬升速率 Maximum Pulse Rise Time (dV / dt) : 若實際工作電壓U比額定電壓U _R 低，電容器可工作在更高的dV / dt場合。這樣dV / dt允許值應為右表值U _R /U。 If the working voltage (U) is lower than the rated voltage (U _R),the capacitor can beworked at a higher dV / dt . In thiscase , the maximum allowed dV / dt is obtain by multiplyingthe right value with UR/U. | U _R (V) | dv/dt (V/us) | |
| | | P=15 | P=22.5 |
| | 630/800 | 11 000 | 5500 |
| | 1000/1250 | 28 000 | 14 000 |
| | 1600 | 32 000 | 16 000 |
| | 2000 | 35 000 | 17 500 |
| 2500 | 40 000 | 20 000 | |



- (1) 可依照客戶需求設計,產品詳細型號及尺寸可聯系業務部門或技術部門
- (2) 引腳型可進行加工編帶,切腳和彎切

外型尺寸 Dimensions (mm)

| CAP | CAP (uF) | 630Vdc / 800Vdc | | | | |
|-----|----------|-----------------|-------|-------|------|-----|
| | | W max | H max | T max | P | d |
| 102 | 0.001 | 18 | 11 | 6 | 15 | 0.8 |
| 222 | 0.0022 | 18 | 11 | 6 | 15 | 0.8 |
| 332 | 0.0033 | 18 | 11 | 6 | 15 | 0.8 |
| 472 | 0.0047 | 18 | 11 | 6 | 15 | 0.8 |
| 682 | 0.0068 | 18 | 11 | 6 | 15 | 0.8 |
| 822 | 0.0082 | 18 | 11 | 6 | 15 | 0.8 |
| 103 | 0.01 | 18 | 12 | 6 | 15 | 0.8 |
| 223 | 0.022 | 18 | 13 | 7.5 | 15 | 0.8 |
| 333 | 0.033 | 18 | 15 | 9 | 15 | 0.8 |
| 473 | 0.047 | 26.5 | 16.5 | 9 | 22.5 | 0.8 |
| 563 | 0.056 | 26.5 | 17.5 | 9.5 | 22.5 | 0.8 |
| 683 | 0.068 | 26.5 | 18.5 | 10.5 | 22.5 | 0.8 |
| 823 | 0.082 | 26.5 | 20 | 13 | 22.5 | 0.8 |
| 104 | 1.0 | 26.5 | 22 | 14 | 22.5 | 0.8 |

| CAP | CAP (uF) | 1600Vdc | | | | |
|-----|----------|---------|-------|-------|------|-----|
| | | W max | H max | T max | P | d |
| 102 | 0.001 | 18 | 11 | 6 | 15 | 0.8 |
| 222 | 0.0022 | 18 | 13 | 8 | 15 | 0.8 |
| 332 | 0.0033 | 18 | 13.5 | 8 | 15 | 0.8 |
| 472 | 0.0047 | 18 | 13.5 | 8 | 15 | 0.8 |
| 682 | 0.0068 | 18 | 14 | 8 | 15 | 0.8 |
| 822 | 0.0082 | 18 | 15 | 9.5 | 15 | 0.8 |
| 103 | 0.01 | 18 | 16 | 10.5 | 15 | 0.8 |
| 822 | 0.0082 | 26.5 | 14.5 | 8 | 22.5 | 0.8 |
| 103 | 0.01 | 26.5 | 15 | 8.5 | 22.5 | 0.8 |
| 223 | 0.022 | 26.5 | 20 | 13 | 22.5 | 0.8 |

| CAP | CAP (uF) | 2500Vdc | | | | |
|-----|----------|---------|-------|-------|----|-----|
| | | W max | H max | T max | P | d |
| 102 | 0.001 | 18 | 11 | 6.5 | 15 | 0.8 |
| 222 | 0.0022 | 18 | 13.5 | 8 | 15 | 0.8 |
| 332 | 0.0033 | 18 | 14 | 9 | 15 | 0.8 |
| 472 | 0.0047 | 18 | 15 | 10 | 15 | 0.8 |
| 682 | 0.0068 | 18 | 16.5 | 11.5 | 15 | 0.8 |

| CAP | CAP (uF) | 1000Vdc / 1250Vdc | | | | |
|-----|----------|-------------------|-------|-------|------|-----|
| | | W max | H max | T max | P | d |
| 102 | 0.001 | 18 | 11 | 6 | 15 | 0.8 |
| 222 | 0.0022 | 18 | 13 | 7.5 | 15 | 0.8 |
| 332 | 0.0033 | 18 | 14.5 | 9 | 15 | 0.8 |
| 472 | 0.0047 | 18 | 13 | 7.5 | 15 | 0.8 |
| 682 | 0.0068 | 18 | 13 | 8 | 15 | 0.8 |
| 822 | 0.0082 | 18 | 14.5 | 8.5 | 15 | 0.8 |
| 103 | 0.01 | 18 | 15 | 10 | 15 | 0.8 |
| 223 | 0.022 | 18 | 17 | 12 | 15 | 0.8 |
| 333 | 0.033 | 26.5 | 17 | 10 | 22.5 | 0.8 |
| 473 | 0.047 | 26.5 | 20 | 13 | 22.5 | 0.8 |

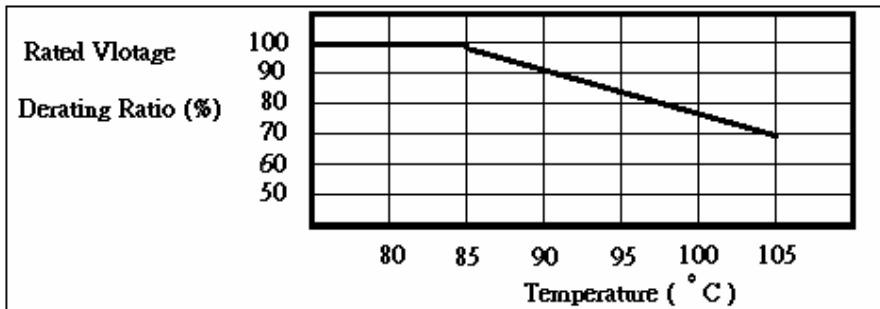
| CAP | CAP (uF) | 2000Vdc | | | | |
|-----|----------|---------|-------|-------|----|-----|
| | | W max | H max | T max | P | d |
| 102 | 0.001 | 18 | 11 | 6.5 | 15 | 0.8 |
| 222 | 0.0022 | 18 | 13 | 8 | 15 | 0.8 |
| 332 | 0.0033 | 18 | 13.5 | 8 | 15 | 0.8 |
| 472 | 0.0047 | 18 | 14 | 8.5 | 15 | 0.8 |
| 682 | 0.0068 | 18 | 15.5 | 10 | 15 | 0.8 |
| 822 | 0.0082 | 18 | 16.5 | 11 | 15 | 0.8 |
| 103 | 0.01 | 18 | 17.5 | 12 | 15 | 0.8 |

一. SCOPE: THIS SPECIFICATION APPLIED TO CAPACITOR FOR TYPE "PPS"
(METALLIZED POLYPROPYLENE FILM CAPACITOR)

二. OPERATING TEMPERATURE: - 40°C ~ + 85°C (+ 105°C)

(Derating ratio of rated voltage to + 85°C ~ + 105°C : 1.5% per °C for Rated Voltage)

Rated Voltage: Rated voltage is defined the voltage which shall be capable of applying to capacitors continuously in the operating temperature range. However, rated voltage shall be derated 1.5% at each 1°C in the range of + 85°C ~ + 105°C as shown in the Fig. below.



三. WORKING VOLTAGE: PPS (800 ~ 2000VDC)

四. CAPACITANCE RANGE : PPS (0.001uF~0.1uF)

五. CAPACITANCE TOLERANCE : ±1%(F), ±2%(G),±3%(H),±5%(J),±10%(K),±20%(M)

六. CONSTRUCTIONS & SHOW

(一) CONSTRUCTIONS.

A : ELEMENT (METALLIZED POLYPROYLENE FILM.)

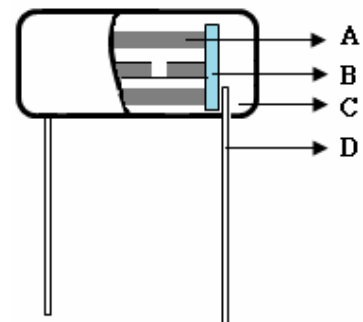
B : METALS(SN.ZN.SB.CU).

C : EPOXY RESIN & WAX

D : WIRE .

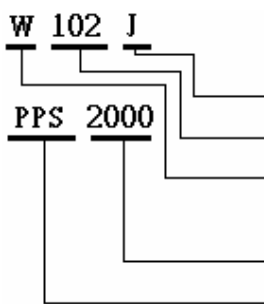
(二) SHOWS:

CAPACITOR'S SHOWS, IT'S SHOWN. ATTACHED DRAWING.



七. MARKING:

CAPACITOR IS MARKING ON BODY FOR FOLLOWING ITEMS.



A : CAPACITANCE TOLERANCE.

B : CAPACITANCE.

C : MANUFACTURE'S NAME AND TRADE MARK.

(WE USE "W" AS OUR REGISTERED TRADE MARK.)

D : WORK VOLTAGE.

E : TYPE NAME.

八. STANDARD TESTING CONDITION:

CAPACITORS MAY BE MEASURED AT TEMPERATURE 20±5°C

AND HUMIDITY:65±5%RH

九. CHARACTERISTICS

| NO. | TEST ITEMS | | CHARACTERISTICS | TEST METHOD |
|-----|------------------------------|-------------------------------|--|---|
| (一) | TESTING VOLTAGE (TV) | BETWEEN TERMINALS | NO BREAKDOWN OR FLASHOVER | 150% RATED VOLTAGE FOR 2 SEC NOT EXCEED 15 mA FOR CHANGE 150% WORKING VOLTAGE FOR 60 SEC |
| | | BETWEEN & ENCLOSURE TERMINALS | NO BREAKDOWN OR FLASHOVER | |
| (二) | INSULATION RESISTANCE (IR) | BETWEEN TERMINALS | $C \leq 0.33\mu F \geq 30\ 000M\Omega$ or more | CHARGING TIME : 60 ± 5 SEC CHARGING VOLTAGE : 100VDC |
| | | BETWEEN & ENCLOSURE TERMINALS | $1.0\mu F \geq C > 0.33\mu F > 10\ 000M\Omega$ or more $C > 1.0\mu F > 5\ 000M\Omega$ or more | |
| (三) | CAPACITANCE | | PLEASE CONSULT PAGE THREE | FREQUENCY AT 1KHZ TEST VOLTAGE 1 V AT $20 \pm 5^\circ C$ |
| (四) | DISSIPATION FACTOR (DF) | | 0.1%(MAX) AT 1KHZ | TEST VOLTAGE 1V AT $20 \pm 5^\circ C$ |
| (五) | LOAD STRENGTH | PULL TEST | ELECTRICAL AND MECHANICAL CHARACTERISTICS NO CHANGE. | WIRE 0.5mm LOAD 0.5KG 10SEC WIRE 0.6mm LOAD 0.5KG 10SEC WIRE 0.8mm LOAD 0.5KG 10SEC WIRE 1.0mm LOAD 1.0KG 20SEC ACC.TO IEC 68-2-21, TEST UA. |
| | | BENDING TEST | ELECTRICAL AND MECHANICAL CHARACTERISTICS NO CHANGE. | WIRE 0.5mm LOAD 5N : $4 \times 90^\circ$ WIRE 0.6&0.8mm LOAD 5N : $4 \times 90^\circ$ WIRE 1.0mm LOAD 5N : $4 \times 90^\circ$ ACC.TO IEC 68-2-21, TEST UB |
| (六) | VIBRATION | | ELECTRICAL AND MECHANICAL CHARACTERISTICS NO CHANGE. | FREQUENCY RANGE 10-55-10HZ 2HRS FOR DIRECTION * 3 DIRECTIONS ACC.TO IEC 68-2-6, TEST FC&FD B4 |
| (七) | SOLDERABILITY | | AFTER THE IMMERSION COVER SOLDER OF 95% AROUND LEAD SURFACE DIPPING POINT. | SOLDERABILITY TEMP. FOR $245 \pm 5^\circ C$ TIME FOR 2 ± 0.5 SEC ACC. TO IEC68-2-20, TEST TA METHOD |
| (八) | RESISTANCE TO SOLDERING HEAT | CHANGE IN CAPACITANCE | CHANGE IN (max) $< \pm 3\%$ | SOLDER TEMP. AT $260 \pm 5^\circ C$ DIPPING TIME FOR 5 ± 1 SEC HAND SOLDER TEMP. AT $350 \pm 10^\circ C$ TIME . AT 3 ± 1 SEC |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | $C \leq 0.33\mu F > 30G\Omega$ $1.0\mu f \geq C > 0.33\mu F > 10\ G\Omega$ $C > 1.0\mu f > 5G\Omega$ | |
| | | APPEARANCE | NO VISIBLE | |

| 九. CHARACTERISTICS | | | | |
|--------------------|----------------------------------|---------------------------|--|---|
| NO. | TEST ITEMS | | CHARACTERISTICS | TEST METHOD |
| (九) | LOW TEMPERATURE TEST | CHANGE IN CAPACITANCE | CHANGE IN (max) $\leq \pm 3\%$ | ACC.TO IEC 68-2-1,TEST. Bb MEASURING CONDITION TEMP : -40°C \pm 2°C DURATION : 2 + 1/ - 0 HOURS THEN RECOVERY AT ORDINARY CONDITION 1~2 HORUS |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | C \leq 0.33uF >30G Ω 1.0uf \geq C > 0.33uF >10 G Ω C > 1.0uf > 5G Ω | |
| | | APPEARANCE | NO VISIBLE | |
| (十) | HIGH TEMPERATURE TEST | CHANGE IN CAPACITANCE | CHANGE IN (max) $\leq \pm 5\%$ | ACC.TO IEC 68-2-2,TEST. Bb MEASURING CONDITION TEMP : 85°C \pm 2°C DURATION : 2 + 1/ - 0 HOURS THEN RECOVERY AT ORDINARY CONDITION 16 \pm 1 HORUS |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | C \leq 0.33uF >30G Ω 1.0uf \geq C > 0.33uF >10 G Ω C > 1.0uf > 5G Ω | |
| | | APPEARANCE | NO VISIBLE | |
| (十一) | TEMPERATURE CYCLE | CHANGE IN CAPACITANCE | CHANGE IN (max) $\leq \pm 10\%$ | ACC TO IEC 68-2-14 METHOD TESTCYCLES NO TEMP TIME 1 + 20°C \pm 2°C 30m 2 - 40°C \pm 2°C 30m 3 + 20°C \pm 2°C 30m 4 + 85°C \pm 2°C 30m 5 + 20°C \pm 2°C 30m THEN RECOVERY AT ORDINARY CONDITION 2 HORUS |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | C \leq 0.33uF >30G Ω 1.0uf \geq C > 0.33uF >10 G Ω C > 1.0uf > 5G Ω | |
| | | APPEARANCE | NO VISIBLE | |
| (十二) | HUMIDITY RESISTANCE LOADING TEST | CHANGE IN CAPACITANCE | CHANGE IN (max) $\leq \pm 10\%$ | ACC TO IEC 68-2-14 METHOD HUMIDITY OF 90~95% RH TEMP : 40 \pm 2°C APPLIED VOLTAGE : R.V DURATION : 500 + 24/ - 0 HOURS THEN RECOVERY AT ORDINARY CONDITION 16 HORUS |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | Δ IR / IR \leq 50% | |
| | | APPEARANCE | NO VISIBLE | |
| (十三) | HIGH TEMPERATURE LOADING | CHANGE IN CAPACITANCE | CHANGE IN (max) $\leq \pm 3\%$ | VOLTAGE OF 125% OF RATED VOLTAGE 50 TO 60Hz SHALL BE APPLIED TO THE CAPACITOR FOR 1000 + 48/0 H THROUGH SERIAL RESISTOR OF 20 TO 1000 Ω PER 1V AT THE TEST TEMPERATURE OF 85 \pm 2°C THEN RECOVERY AT ORDINARY CONDITION 16 HORUS |
| | | TANGENT OF THE LOSS ANGLE | 0.1%(MAX) AT 1KHZ | |
| | | DIELECTRIC STRENGTH | 150% WORKING VOLTAGE | |
| | | INSULATION RESISTANCE | C \leq 0.33uF >30G Ω 1.0uf \geq C > 0.33uF >10 G Ω C > 1.0uf > 5G Ω | |
| | | APPEARANCE | NO VISIBLE | |

十. TESTING EQUIPMENT 檢測設備:

(一) CAPACITANCE AND 容量和損耗角 (CAP& DF) :

1. UAD TECH 1689 LCR METER.
2. TAI WAN ZENTECH 1062 LCR METER.
3. TAI WAN ZENTECH 1063 LCR METER.
4. TAI WAN ZENTECH 1075 LCR METER.

(二) INSULATION RESISTANCE 絕緣阻抗 (IR) :

1. DAN BRIDGE 602 METER
2. ZENTECH 705 IR METER.

(三) DIELECTRIC STRENGTH 耐電壓 (TV) :

1. ZENTECH 902
2. TAI WAN EXTECH 7450

(四) AUTO SORTING MACHINES 自動分選機(選別機)

1. TAI WAN URANUS SORTING AUTOMATIC
2. TAI WAN WELL DELL SORTING AUTOMATIC

(五) CHARACTERISTICS OF PERMISSIBLE CURRENT TO FREQUENCY

許容電流與頻率特性

1. CHROMA PROGRAMMABLE HF AC TESTER MODEL 11805
可程式高頻交流測試器11805
2. CHROMA DIGIT MULTIMETER 12061
六位半數位多功能電表
3. CHROMD CAPACITOR LEAKAGE CURRENT / IR METER MODEL11200
電容漏電流/絕緣電阻表11200

(六) RoHS & WITHOUT HALOGEN

RoHS和無鹵產品

1. SHIMADZU EDX-LE

十一. ACCEPTABLE QUALITY LEVEL 允收標準 (AQL):

AQL IS ACCORDING TO MIL-STD-105E-II, BY LOT GOING INSPECTION.

允收標準(AQL)是根據MIL-STD-105E-II抽樣方試檢驗

(一) APPEARANCE AQL : 1.0 AC

外觀不良低於1.0為允收

(二) DIMENSIONS AQL: 1.0 AC

尺寸不良低於1.0為允收

(三) MECHANICAL CHARACTERISTICS AQL: 1.0 AC

機械特性不良低於1.0為允收

(四) ELECTRICAL CHARACTERISTICS AQL: 0.065 (INCLUDE CAP,DF,TV,IR)

電器特性不良低於 0.065 (包括 CAP,DF,TV,IR)

十二. Product electrical characteristic graph 產品電氣特性圖

溫度性能

Temperature Characteristics



頻率性能

Frequency Characteristics



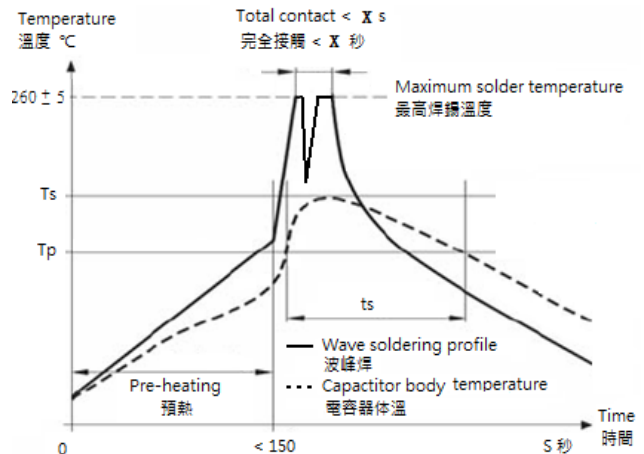
十二. Soldering suggestions - 焊接建議

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.

當焊接電容時，焊錫熱會通過引線端子高溫和封裝層傳遞到電容素子，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。

Ts : Capacitor body maximum temperature at wave soldering
電容器本體最高波峰焊溫度

Tp : 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：

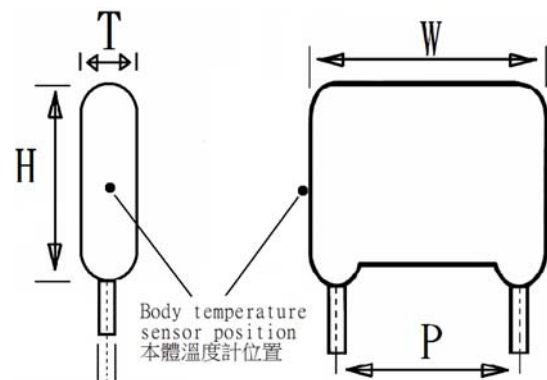
PP 聚丙烯電容器

During pre-heating : $T_p \leq 115^\circ\text{C}$

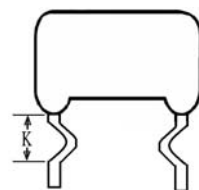
During soldering : $T_s \leq 120^\circ\text{C}$, $t_s \leq 45\text{ s}$

預熱期間溫度 : $T_p \leq 115^\circ\text{C}$

焊接期間溫度 : $T_s \leq 120^\circ\text{C}$, $t_s \leq 45\text{ 秒}$



| | | |
|---|------------|-----|
| | X s | X s |
| T 產品厚度 $\geq 6\text{mm}$ | 10 s | |
| $6\text{mm} > T$ 產品厚度 $\geq 5\text{mm}$ 且 K 3.5mm | 10 s | |
| $6\text{mm} > T$ 產品厚度 $\geq 5\text{mm}$ | | 5 s |
| $5\text{mm} > T$ 產品厚度 $\geq 4.5\text{mm}$ 且 K 3.5mm | | 5 s |
| OPP P $< 7.5\text{mm}$ 或 T 產品厚度 $< 4.5\text{mm}$ | 3 s | |



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

十三. Manufacturers製造商：JOEY ELECTRONICS CO,LTD. 久亦電子有限公司。
Origin , including 產地：CHINA P .R .C 中國

十四. The compliance with enviroment requirement 環保要求符合性

- 14.1 Compliance with the requirement of RoHS.符合RoHS要求。
- 14.2 Compliance with the requirement of REACH.符合REACH要求。
- 14.3 Without Halogen (as required) 符合無鹵 (如要求)。

十五. Storage conditions 存儲條件：

- 15.1 It should be noted that the solderability of the terminals may be deteriorated when Stored bardly in an atmosphere for a long periods.
請注意，長時間暴露在空氣中會導致引線焊接性能衰減。
- 15.2 It shouldn't be located in particularly high temperature and hign humidity , it must Submit to the following conditions (keeping in the original package) :
不能放置在高溫和高濕環境中，請遵循以下存諸條件 (原包裝下保存)
Temperature 溫度：35°C MAX.
Relative humidity 相對濕度：80% MAX.
- 15.3 Storage period : (from the manufacturing date marked on the label in package bag)
Loose : 12months MAX.
存儲時間：(包裝袋上標注的生產日期為準) 最長12個月。

十六. Characteristics and test conditions 電氣特性和測試條件：

Test condition : Unless otherwise specified , the standard range of atmospheric Conditions for marking measurements and test is as follows Ambient
Temperature 環境溫度：15~35°C
Relaive humidity 相對濕度：25~75%
If there may be any doubt on the results , measurements shall be made within the Following limits.
如對測試結果有任何疑問，則按以下限制測試：
Ambient temperature 環境溫度：20 ~ 25 °C
Relative humidity 環境濕度：60 ~ 70% .

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