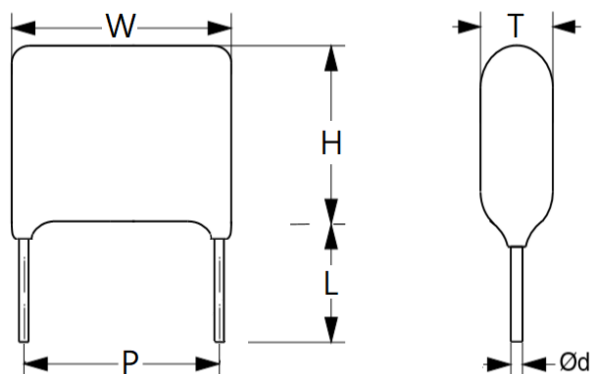


Metallized Polypropylene Film Capacitor (Dipped)

■ 外形圖 Outline Drawing (For Example)



■ 典型應用

廣泛應用於高頻、直流、交流和脈衝電路，
電子鎮流器、開關電源

■ Typical Applications

Widely used in high frequency, DC, AC and pulse circuits
Electronic ballasts, Switch-mode power supplies

■ 特徵

金屬化聚丙烯薄膜徑向鍍錫引線，
捲繞電容器技術
環氧樹脂塗層 (UL 94 V-0)

■ Features

Metallized polypropylene film with radial leads of tinned
Wound capacitor technology
Epoxy resin coating (UL 94 V-0)

■ 規格 Specifications

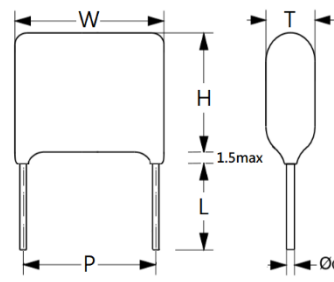
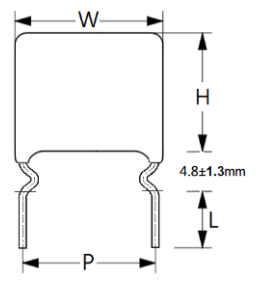
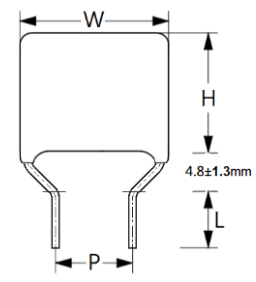
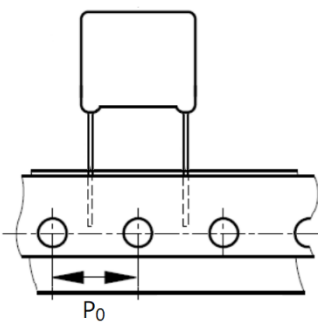
參考標準 Reference Standard	GB/T 10190 (IEC 60384-16)				
氣候類別 Climatic Category	40/105/21				
額定溫度 Rated Temperature	85°C				
工作溫度範圍 Operating Temperature Range	-40°C~+105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U _R)				
容值範圍 Capacitance Range	0.001μF ~ 3.3μF				
額定直流電壓 Rated (DC) Voltage	100V	250V	400/450V	630V	1000V
連續交流電壓 Maximum continuous AC voltage	63V	160V	200V	250V	400V
容值公差 Capacitance Tolerance	±5%(J)、±10%(K)、±20%(M)				
耐電壓 Voltage Proof	U _R × 1.6, 5s (DC)				
損耗因素 Dissipation Factor	≤ 10 × 10 ⁻⁴ at 1kHz, (1Vrms Max. at 20°C)				
絕緣電阻 Insulation Resistance	U _R < 500V, 100Vdc U _R > 500V, 500Vdc		C _R ≤ 0.33μF, IR ≥ 25000MΩ C _R > 0.33μF, IR × C _R ≥ 7500s		

Metallized Polypropylene Film Capacitor (Dipped)

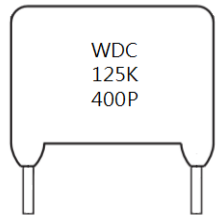
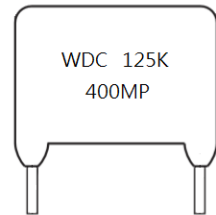
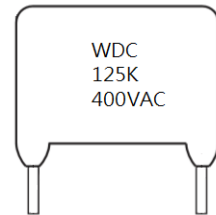
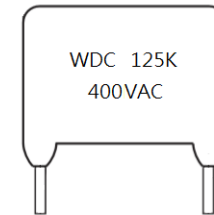
■ 產品代碼構成 Product code system (For Example)

SMPP	J	103	K	0630	D	B	10	23
型號 Type	內部使用 Internal use	容值 Capacitance	公差 Tolerance	額定電壓 Rated Voltage	交直流 AC/DC	引線成形 Lead forming	引線間距 Lead Pitch	引線長度 Lead Length
SMPP= Metallized Polypropylene Capacitor (Dipped)	--	103 =10000pF =10nF =0.01μF	J=±5% K=±10% M=±20%	0063=63V 0100=100V 0250=250V 0400=400V 0630=630V 1000=1000V	D=DC A=AC	(表一) Shown as Table I	08=7.5mm 10=10mm 15=15mm 23=22.5mm 28=27.5mm	04=3.5mm 15=15mm 23=23mm

(表一) Table I

引線成形 Lead Forming			
B (Straight 23mm) or K (Short)	R (Inside Kink)	U (Vertical Kink)	T (Taping)
			

■ 標示 Marking (For Example)

DC Marking		AC Marking	
Pitch 7.5mm	Pitch ≥ 10mm	Pitch 7.5mm	Pitch ≥ 10mm
			

1. WDC is a registered trademark of WINDAY

2. Capacitance: 1.2μF and Tolerance is K=±10%

3. Rated Voltage: 400V

4. P or MP for Metallized polypropylene film capacitor

■ Dimensions (mm)

100Vdc (63Vac)						
Cap. μF	W	H	T	P	d	Part number
0.010	10	10	6	7.5	0.6	SMPP_103+0100D*08**
0.015	10	11	7	7.5	0.6	SMPP_153+0100D*08**
0.018	10	11	7.5	7.5	0.6	SMPP_183+0100D*08**
0.022	10	9	5.5	7.5	0.6	SMPP_223+0100D*08**
0.027	10	9.5	5.5	7.5	0.6	SMPP_273+0100D*08**
0.033	10	10	6	7.5	0.6	SMPP_333+0100D*08**
0.039	10	10	6.5	7.5	0.6	SMPP_393+0100D*08**
0.047	10	10.5	7	7.5	0.6	SMPP_473+0100D*08**
0.056	10	9	5.5	7.5	0.6	SMPP_563+0100D*08**
0.068	10	9.5	5.5	7.5	0.6	SMPP_683+0100D*08**
0.082	10	10.5	6	7.5	0.6	SMPP_823+0100D*08**
0.10	10	10.5	6.5	7.5	0.6	SMPP_104+0100D*08**
0.12	10	11	6.5	7.5	0.6	SMPP_124+0100D*08**
0.15	13	11	6.5	10	0.6	SMPP_154+0100D*10**
0.18	13	12	6.5	10	0.6	SMPP_184+0100D*10**
0.22	13	12.5	7	10	0.6	SMPP_224+0100D*10**
0.27	13	13	7.5	10	0.6	SMPP_274+0100D*10**
0.33	19	12	6.5	15	0.8	SMPP_334+0100D*15**
0.39	19	12.5	7	15	0.8	SMPP_394+0100D*15**
0.47	19	13	7.5	15	0.8	SMPP_474+0100D*15**
0.56	19	13.5	8	15	0.8	SMPP_564+0100D*15**
0.68	19	14	9	15	0.8	SMPP_684+0100D*15**
0.82	19	15	9.5	15	0.8	SMPP_824+0100D*15**
1.0	24	15.5	8.5	20	0.8	SMPP_105+0100D*20**
1.2	24	16	9.5	20	0.8	SMPP_125+0100D*20**
1.5	24	17	10.5	20	0.8	SMPP_155+0100D*20**
1.8	24	18	11.5	20	0.8	SMPP_185+0100D*20**
2.0	29	17.5	10.5	25	0.8	SMPP_205+0100D*25**
2.2	29	18	11	25	0.8	SMPP_225+0100D*25**
2.7	29	20	11.5	25	0.8	SMPP_275+0100D*25**
3.3	29	21	13	25	0.8	SMPP_335+0100D*25**

250Vdc (160Vac)						
Cap. μF	W	H	T	P	d	Part number
0.010	10	10	6	7.5	0.6	SMPP_103+0250D*08**
0.015	10	9.5	6	7.5	0.6	SMPP_153+0250D*08**
0.018	10	10	6	7.5	0.6	SMPP_183+0250D*08**
0.022	10	9	5.5	7.5	0.6	SMPP_223+0250D*08**
0.027	10	9.5	5.5	7.5	0.6	SMPP_273+0250D*08**
0.033	10	10	6	7.5	0.6	SMPP_333+0250D*08**
0.039	10	10	6.5	7.5	0.6	SMPP_393+0250D*08**
0.047	10	10.5	7	7.5	0.6	SMPP_473+0250D*08**
0.056	13	10	6.5	10	0.6	SMPP_563+0250D*10**
0.068	13	10.5	7	10	0.6	SMPP_683+0250D*10**
0.082	13	10.5	6	10	0.6	SMPP_823+0250D*10**
0.10	13	11	6.5	10	0.6	SMPP_104+0250D*10**
0.12	13	11.5	7	10	0.6	SMPP_124+0250D*10**
0.15	19	12	7	15	0.8	SMPP_154+0250D*15**
0.18	19	13.5	7	15	0.8	SMPP_184+0250D*15**
0.22	19	14	7.5	15	0.8	SMPP_224+0250D*15**
0.27	19	15	8	15	0.8	SMPP_274+0250D*15**
0.33	19	15.5	9	15	0.8	SMPP_334+0250D*15**
0.39	24	14.5	8.5	20	0.8	SMPP_394+0250D*20**
0.47	24	15	9	20	0.8	SMPP_474+0250D*20**
0.56	24	16	10	20	0.8	SMPP_564+0250D*20**
0.68	24	17.5	10.5	20	0.8	SMPP_684+0250D*20**
0.82	24	18.5	11.5	20	0.8	SMPP_824+0250D*20**
1.0	29	17.5	9	25	0.8	SMPP_105+0250D*25**
1.2	29	18	10	25	0.8	SMPP_125+0250D*25**
1.5	29	19.5	11	25	0.8	SMPP_155+0250D*25**
1.8	29	21.5	11.5	25	0.8	SMPP_185+0250D*25**
2.0	29	22	12	25	0.8	SMPP_205+0250D*25**
2.2	29	22.5	12.5	25	0.8	SMPP_225+0250D*25**
2.7	29	24	14	25	0.8	SMPP_275+0250D*25**
3.3	29	25.5	15.5	25	0.8	SMPP_335+0250D*25**

■ Dimensions (mm)

400Vdc/450Vdc (200Vac)						
Cap. μF	W	H	T	P	d	Part number
0.010	10	10	6	7.5	0.6	SMPP_103+0400D*08**
0.015	10	11	7	7.5	0.6	SMPP_153+0400D*08**
0.018	10	11	7.5	7.5	0.6	SMPP_183+0400D*08**
0.022	10	12	8	7.5	0.6	SMPP_223+0400D*08**
0.027	13	12	6.5	10	0.6	SMPP_273+0400D*10**
0.033	13	12	7	10	0.6	SMPP_333+0400D*10**
0.039	13	12.5	7	10	0.6	SMPP_393+0400D*10**
0.047	13	13	8	10	0.6	SMPP_473+0400D*10**
0.056	13	14	8.5	10	0.6	SMPP_563+0400D*10**
0.068	19	13.5	6.5	15	0.8	SMPP_683+0400D*15**
0.082	19	13.5	7	15	0.8	SMPP_823+0400D*15**
0.10	19	14.5	7.5	15	0.8	SMPP_104+0400D*15**
0.12	19	15	8	15	0.8	SMPP_124+0400D*15**
0.15	19	15.5	9	15	0.8	SMPP_154+0400D*15**
0.18	24	15	8	20	0.8	SMPP_184+0400D*20**
0.22	24	16	8.5	20	0.8	SMPP_224+0400D*20**
0.27	24	16.5	9.5	20	0.8	SMPP_274+0400D*20**
0.33	24	17.5	10	20	0.8	SMPP_334+0400D*20**
0.39	29	17	9.5	25	0.8	SMPP_394+0400D*25**
0.47	29	18.5	10	25	0.8	SMPP_474+0400D*25**
0.56	29	19.5	11	25	0.8	SMPP_564+0400D*25**
0.68	29	19.5	12	25	0.8	SMPP_684+0400D*25**
0.82	34	20.5	12	30	0.8	SMPP_824+0400D*30**
1.0	34	21.5	13	30	0.8	SMPP_105+0400D*30**

(1) The symbol + means capacitance tolerance (J=±5%, K=±10%)

(2) The symbol * means style of lead forming

(3) The symbol ** means the lead length

630Vdc (250Vac)						
Cap. μF	W	H	T	P	d	Part number
0.0010	10	9	5.5	7.5	0.6	SMPP_102+0630D*08**
0.0015	10	9	5.5	7.5	0.6	SMPP_152+0630D*08**
0.0018	10	9	5.5	7.5	0.6	SMPP_182+0630D*08**
0.0022	10	9	6	7.5	0.6	SMPP_222+0630D*08**
0.0027	10	9	5	7.5	0.6	SMPP_272+0630D*08**
0.0033	10	9	5.5	7.5	0.6	SMPP_332+0630D*08**
0.0039	10	9	5.5	7.5	0.6	SMPP_392+0630D*08**
0.0047	10	9.5	6	7.5	0.6	SMPP_472+0630D*08**
0.0056	10	10	6.5	7.5	0.6	SMPP_562+0630D*08**
0.0068	13	9	5.5	10	0.6	SMPP_682+0630D*10**
0.0082	13	9	6	10	0.6	SMPP_822+0630D*10**
0.010	13	11	6	10	0.6	SMPP_103+0630D*10**
0.015	13	12	7	10	0.6	SMPP_153+0630D*10**
0.018	13	13	7.5	10	0.6	SMPP_183+0630D*10**
0.022	13	13.5	8	10	0.6	SMPP_223+0630D*10**
0.027	19	12	7	15	0.8	SMPP_273+0630D*15**
0.033	19	12.5	7.5	15	0.8	SMPP_333+0630D*15**
0.039	19	13	8	15	0.8	SMPP_393+0630D*15**
0.047	19	13.5	8.5	15	0.8	SMPP_473+0630D*15**
0.056	19	15	8.5	15	0.8	SMPP_563+0630D*15**
0.068	24	14.5	8	20	0.8	SMPP_683+0630D*20**
0.082	24	15	8.5	20	0.8	SMPP_823+0630D*20**
0.10	24	16	9	20	0.8	SMPP_104+0630D*20**
0.15	24	17.5	10.5	20	0.8	SMPP_154+0630D*20**
0.18	24	19.5	11	20	0.8	SMPP_184+0630D*20**
0.22	29	19.5	10	25	0.8	SMPP_224+0630D*25**
0.27	29	20.5	11.5	25	0.8	SMPP_274+0630D*25**
0.33	29	22	12	25	0.8	SMPP_334+0630D*25**
0.39	34	20.5	12.5	30	0.8	SMPP_394+0630D*30**
0.47	34	22	13.5	30	0.8	SMPP_474+0630D*30**
0.56	34	23	14.5	30	0.8	SMPP_564+0630D*30**

■ Dimensions (mm)

1000Vdc (400Vac)						
Cap. μF	W	H	T	P	d	Part number
0.0010	10	9	5.5	7.5	0.6	SMPP_102+1000D*08**
0.0015	10	9	5.5	7.5	0.6	SMPP_152+1000D*08**
0.0018	10	9	5.5	7.5	0.6	SMPP_182+1000D*08**
0.0022	10	9	6	7.5	0.6	SMPP_222+1000D*08**
0.0027	10	10	6	7.5	0.6	SMPP_272+1000D*08**
0.0033	10	10	6.5	7.5	0.6	SMPP_332+1000D*08**
0.0039	10	10.5	7	7.5	0.6	SMPP_392+1000D*08**
0.0047	10	11	7.5	7.5	0.6	SMPP_472+1000D*08**
0.0056	10	11.5	8	7.5	0.6	SMPP_562+1000D*08**
0.0068	12.5	10.5	7	10	0.8	SMPP_682+1000D*10**
0.0082	12.5	11	7.5	10	0.8	SMPP_822+1000D*10**

(1) The symbol + means capacitance tolerance ($J=\pm 5\%$, $K=\pm 10\%$)

(2) The symbol * means style of lead forming

(3) The symbol ** means the lead length

■ 檢驗要求 Inspection requirements

試驗項目 Test items	性能要求 Performance requirements	試驗條件 Conditions of test
電容量 Capacitance	在規定偏差範圍內 Within the tolerance specified	1kHz, 1Vrms Max. at 20°C
損耗因素 Dissipation Factor	$\leq 10 \times 10^{-4}$ at 1kHz	1Vrms Max. at 20°C
耐電壓 Voltage proof	無擊穿或飛弧 Shall be no abnormality	引線間 Between terminals $U_R \times 1.6$ (Vdc) Test of 5sec.
絕緣電阻 Insulation resistance	$C_R \leq 0.33\mu F$, $IR \geq 25000M\Omega$ $C_R > 0.33\mu F$, $IR \times C_R \geq 7500s$	$U_R < 500V$ at 100Vdc, $U_R > 500V$ at 500Vdc, For 60sec / 20°C
引出端強度 Robustness of terminations	無斷線, 電容器無可見損壞 No wire breakage and no damage of capacitor	拉力 Tensile U_{a1} (Duration : 10s $\pm$ 1s)
		線徑 Wire diameter
		$d \leq 0.8mm$
		$d \leq 1.25mm$
		彎曲 Bending U_b (4*90°, duration : 2 times/bend)
		Wire diameter
		Load
耐焊接熱 Resistance to soldering heat	(1) 無可見損壞 No visible damage (2) $\Delta C/C \leq 3\%$ of the initial value (3) $\tan \delta \leq 0.004$ of increased value	焊接溫度 Solder temperature: 260 $\pm$ 5°C 焊接時間 Solder time: 5 $\pm$ 0.5sec
可焊性 Solderability		焊接溫度 Solder temperature: 235 $\pm$ 5°C 焊接時間 Solder time: 2 $\pm$ 0.5sec
溫度快速變化 Rapid change of temperature	應目視檢查電容器, 並無可見損壞 The capacitors shall be visually examined and there shall be no visible damage.	下限溫度 Lower category temperature: -40°C 上限溫度 Upper category temperature: 85°C 循環次數 Number of cycles: 5 times 持續時間 Duration $t_1 = 30$ min
振動 Vibration	最後測量 Final inspection (1) $\Delta C/C \leq 3\%$ of the initial value (2) Increase of $\tan \delta$ over the value ≤ 0.004 (3) $IR \geq 50\%$ of the applicable limits	頻率範圍 Frequency range: 10~55Hz 振幅軸向 Course: X、Y、Z (axis) 持續時間 2h / axis (6h in total) 位移振幅 Displacement amplitude: 0.75mm
碰撞 Bump		加速度 Acceleration: 400m/s ² , 4000 times 脈沖持續時間 Pulse duration: 6ms

■ 檢驗要求 Inspection requirements

試驗項目 Test items	性能要求 Performance requirements	試驗條件 Conditions of test
氣候序列 Climatic sequence	(1) No visible damage, Legible marking (2) $\Delta C/C \leq 5\%$ of the initial value (3) Increase of $\tan \delta$ over the value ≤ 0.005 (4) $IR \geq 50\%$ of the applicable limits (5) Voltage proof : No permanent breakdown	乾熱 Dry Heat 上限溫度 Upper Temperature: 85°C, 16Hrs 循環濕熱 Damp heat, cyclic, Test Db, first cycle
		寒冷 Cold 下限溫度 Lower Temperature: -40°C, 2Hrs 循環濕熱 Damp heat, cyclic, Test Db, remaining cycle
濕熱穩態 Damp Heat Steady State	(1) No visible damage, Legible marking (2) Voltage proof : $U_R \times 1.0$ (3) $\Delta C/C \leq 5\%$ of the Initial value (4) Increase of $\tan \delta$ over the value ≤ 0.002 (5) $IR \geq 50\%$ of the applicable limits	溫度 +40°C, 濕度 93%, 21 天 +40°C and 93% RH, 21 days
耐久性 Endurance	(1) No Visible Damage (2) $\Delta C/C \leq 5\%$ of the initial value (3) Increase of $\tan \delta$ over the value ≤ 0.004 (4) $IR \geq 50\%$ of the applicable limits	實驗電壓 $U_R \times 125\%$, 實驗溫度 Temperature: +85°C 實驗時間 Time: 1000Hrs
充電和放電 Charge and discharge	(1) $\Delta C/C \leq 5\%$ of the initial value (2) Increase of $\tan \delta$ over the value ≤ 0.005 (3) $IR \geq 50\%$ of the applicable limits	實驗電壓 Test voltage : Rated (DC) voltage 充放電 Charge and discharge: 0.5sec/time 重複次數 Repeated for 10000 cycles

Metallized Polypropylene Film Capacitor (Dipped)

■ 薄膜電容器焊接指南 Soldering Guidelines for Film Capacitors

聚丙烯膜電容器對熱特別敏感 (聚丙烯膜的熔點為 $160^{\circ}\text{C} \sim 170^{\circ}\text{C}$)，波峰焊可能具有破壞性，尤其是對於小型聚丙烯膜電容器 (引線間距為 5 mm 至 15 mm)，焊接過程中必須非常小心。

一般來說，IEC 出版物 61760-1 第 2 版中的波峰焊接曲線可作為成功焊接的可靠指南。(請參見圖 1)

Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is $160 - 170^{\circ}\text{C}$).

Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 – 15 mm), and great care must be taken during soldering. In general, the wave soldering curve from IEC Publication 61760-1 Edition 2 serves as a solid guideline for successful soldering. See Figure 1.

通孔的薄膜電容器不建議採用回流焊。將電容器暴露在超過上述建議限值可能會導致電容器退化或永久性損壞。

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the recommended limits may result in degradation or permanent damage to the capacitors.

請勿將聚丙烯膜電容器通過粘合劑固化爐來固化表面安裝部件的樹脂，須在表面安裝零件固化後插入通孔零件。

如果通孔部件必須通過粘合劑固化過程，請諮詢 WINDAY，討論烘箱中的實際溫度分布。

建議最多進行兩次焊接循環。在第二次焊接循環之前，請留出時間使電容器表面溫度恢復到正常溫度。

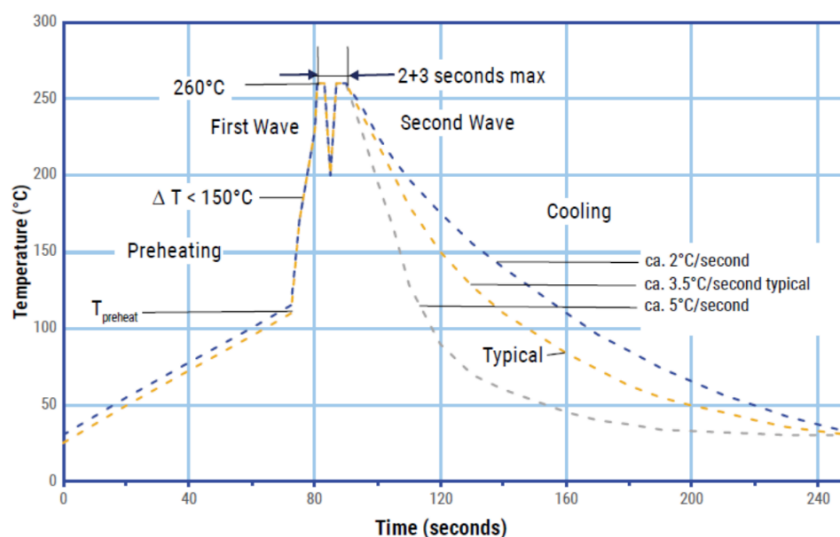
Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components.

Insert through-hole parts after curing the surface mount parts. Contact WINDAY to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process.

A maximum two soldering cycles is recommended.

Allow time for the capacitor surface temperature to return to normal before the second soldering cycle.

■ 波峰焊建議 Wave Soldering Recommendations (Figure 1)



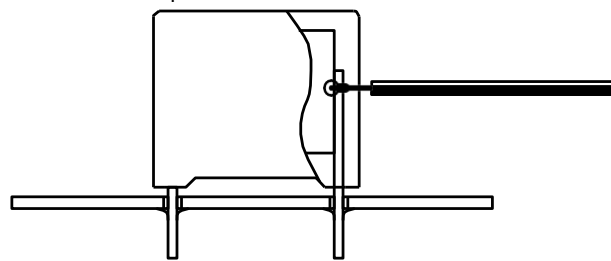
■ 波峰焊建議 Wave Soldering Recommendations (Continue)

1. 該表顯示了焊接過程的最高設置溫度 The tables indicates the maximum set-up temperature of the soldering process

介電薄膜材料 Dielectric Film Material	最高預熱溫度 Max. Preheat Temperature		最高峰值焊接溫度 Max. Peak Soldering Temperature	
	Pitch $\leq$ 15 mm	Pitch $>$ 15 mm	Pitch $\leq$ 15 mm	Pitch $>$ 15 mm
聚乙酯膜 Polyester	130°C	130°C	270°C	270°C
聚丙烯膜 Polypropylene	110°C	130°C	260°C	270°C

2. 電容器內部測得的最高溫度 The maximum temperature measured inside the capacitor

介電薄膜材料 Dielectric Film Material	元件內部測得的最高溫度 Maximum Temperature Measured Inside the Element
聚乙酯膜 Polyester	160°C
聚丙烯膜 Polypropylene	110°C



設置溫度，使元件內的最高溫度低於極限：

Set the temperature so that inside the element the maximum temperature is below the limit.

■ 儲存條件和期限 Storage conditions and duration

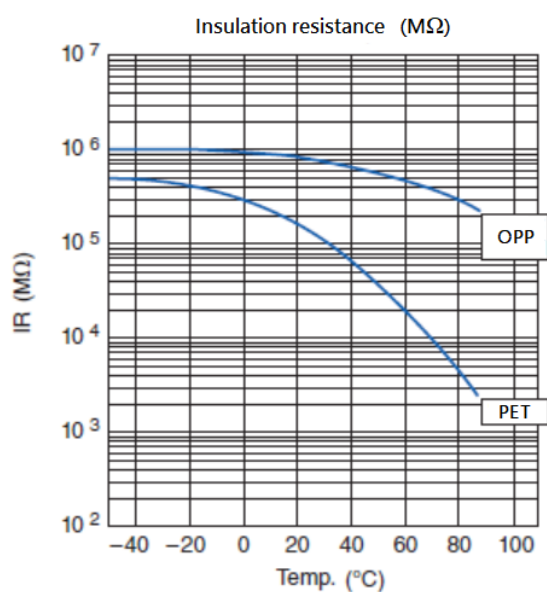
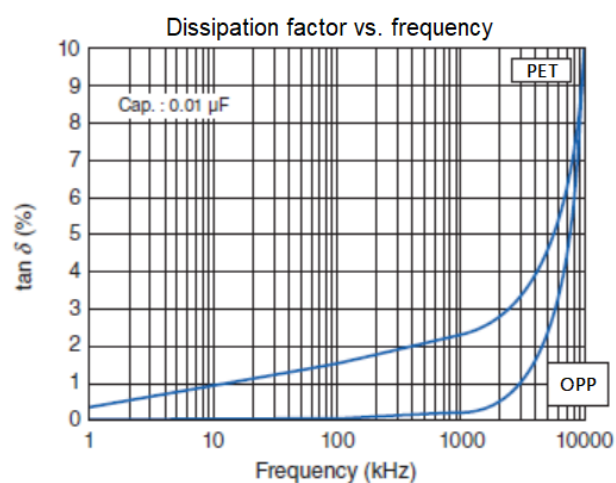
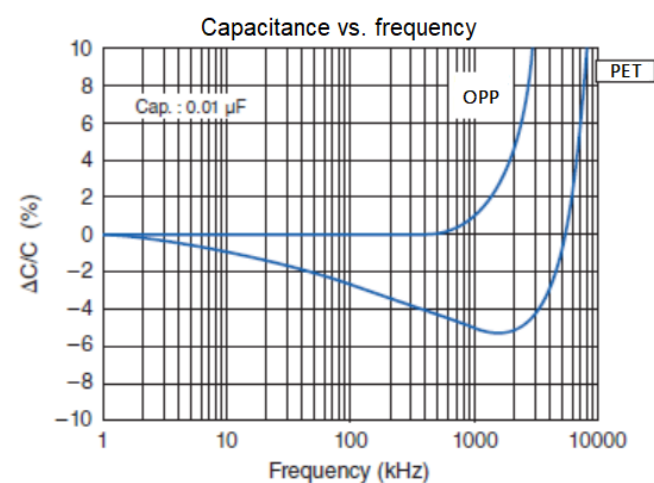
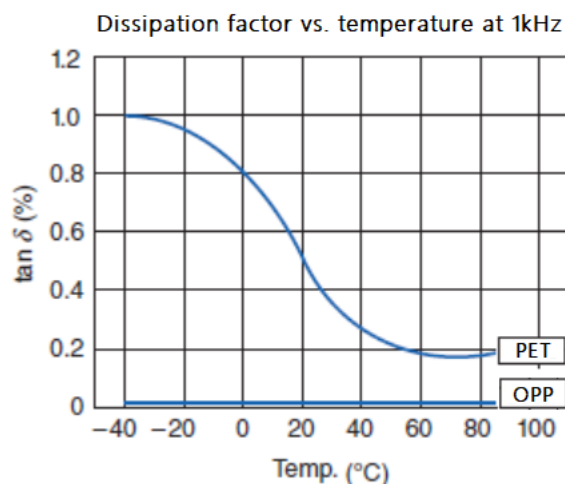
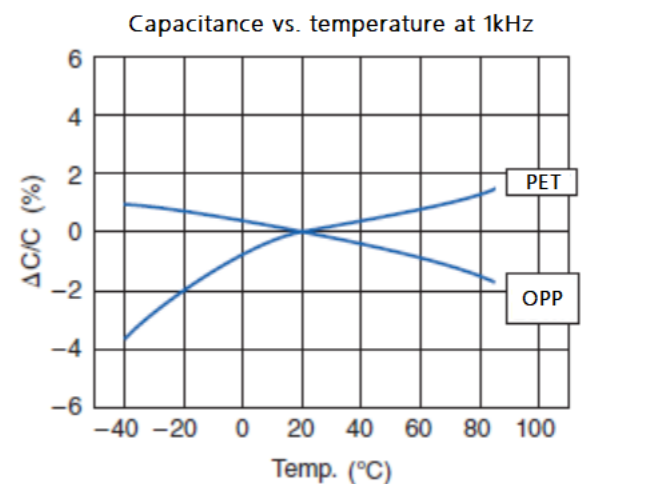
包裝好的電容器應存放在清潔、通風、乾燥的庫房內，不靠近熱源，不受陽光直射，嚴禁與化學試劑、酸和有害氣體一起儲存。T_{stg} = +5°C 至 +35°C，最大相對濕度為 75%，無冷凝，儲存一年。

Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

T_{stg} = +5°C to +35°C with relative humidity of maximum 75% without condensation, storage for one year.

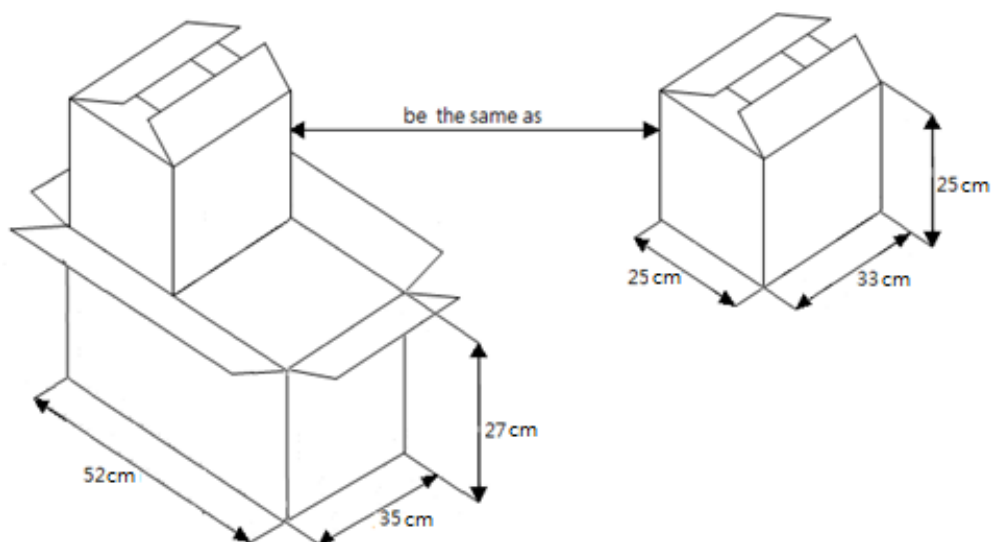
Metallized Polypropylene Film Capacitor (Dipped)

■ 典型圖 Typical graphs



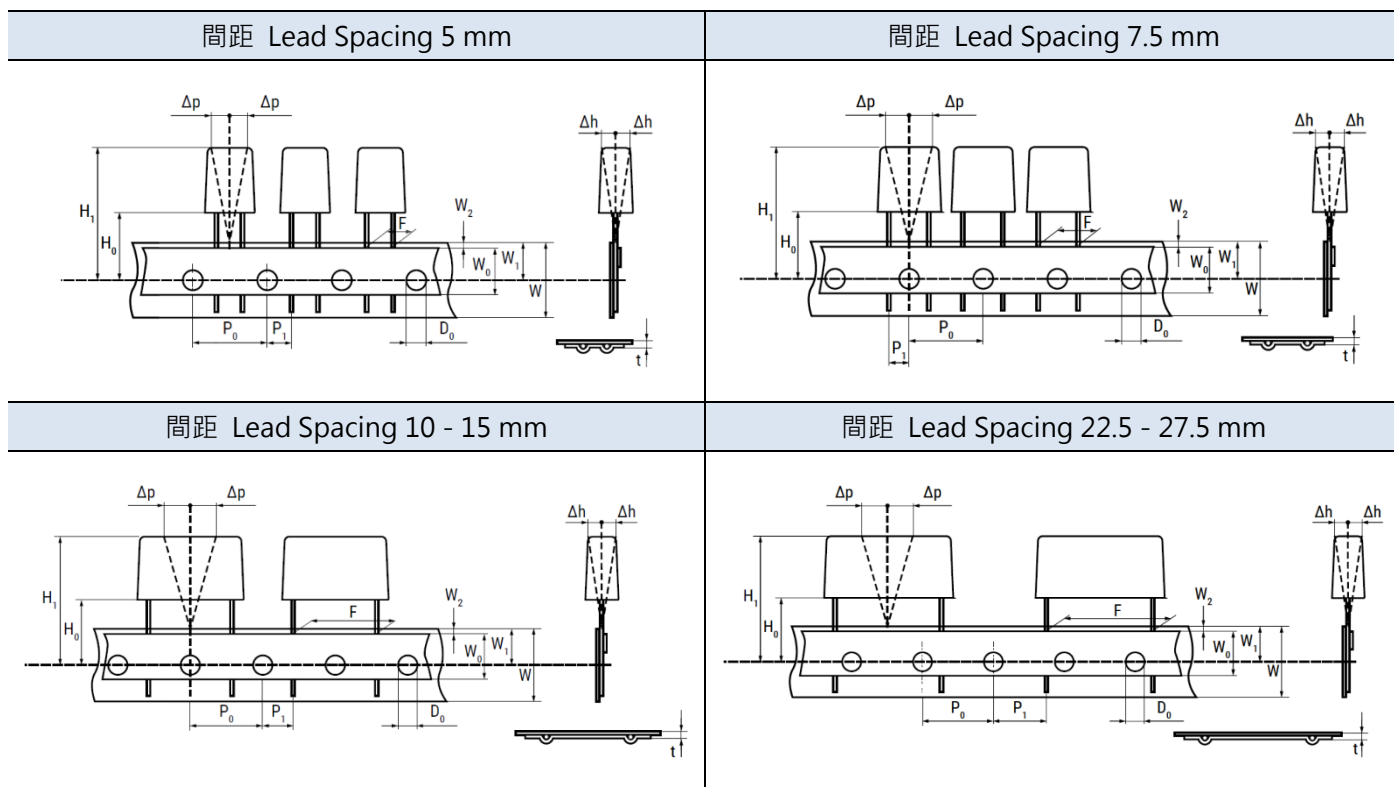
PET :	聚乙酯膜 Polyester film capacitor
OPP :	聚丙烯膜 Polypropylene film capacitor

■ 包裝 Packaging



腳距 Pitch (mm)	Pcs / Bag	Pcs / 內紙箱 Inner carton (L33:cm XH:25cm X T:25cm)	Pcs / 外紙箱 Out box (L52:cm XH:27cm X T:35cm)
5~10	1000	10000	20000
15	500	5000	10000
20	300 or 500	3000 or 5000	6000 or 10000
22.5	300	3000	6000
27.5	200	2000	4000
≥27.5	100	1000	2000

■ 引線編帶 Lead Taping (IEC 60286-2) Table II



■ 編帶規格 Taping Specification

尺寸單位 Dimensions in mm								
引線間距 Lead Spacing	+0.8/-0.2	F	5	7.5	10	15	22.5	27.5
載帶寬度 Carrier Tape Width	+1/-0.5	W	18	18	18	18	18	18
膠帶寬度 Hold-down Tape Width	Minimum	W ₀	9.5	9.5	9.5	9.5	9.5	9.5
鏈孔位置 Position of Sprocket Hole	±0.5	W ₁	9	9	9	9	9	9
帶與帶距 Distance Between Tapes	Minimum	W ₂	3	3	3	3	3	3
鏈孔直徑 Sprocket Hole Diameter	±0.2	D ₀	4	4	4	4	4	4
進料孔距 Feed Hole Lead Spacing	±0.2 ⁽¹⁾	P ₀ ⁽³⁾	12.7	12.7	12.7	12.7	12.7	12.7
引線-鏈孔 Distance Lead-Feed Hole	±0.7	P ₁	3.85	3.75	7.7	5.2	7.8	5.3
平面偏差 Deviation Tape - Plane	Minimum	Δp	1.3	1.3	1.3	1.3	1.3	1.3
橫向偏差 Lateral Deviation	±2	Δh	2	2	2	2	2	2
總厚度 Total Thickness	±0.2	T	0.7	0.7	0.7	0.7	0.7	0.7
鏈孔-本體 Sprocket Hole/Cap Body	±0.5	H ₀ ⁽²⁾	18.5	18.5	18.5	18.5	18.5	18.5

(1) 最大累計進料孔誤差：每20個零件 1mm / Maximum cumulative feed hole error, 1 mm per 20 parts.

(2) 16.5 mm 可根據要求提供 / 16.5 mm available on request.

(3) 15.0 mm 可根據要求提供 / 15.0 mm available on request (F ≥ 10mm).