

產品特點 Features

- ◎無極性品 Bi-polarized
- ◎性能穩定,可靠性高 High stability and reliability
- ◎適用於高密度表面組裝 Available for high density surface mounting
- ◎壽命105°C 1000小時標準品 Life time105°C 1000 hrs standard product
- ◎產品直徑 Case diameter Φ 4mm~ Φ 6.3mm
- ◎適用於再回流焊 Reflow soldering is available



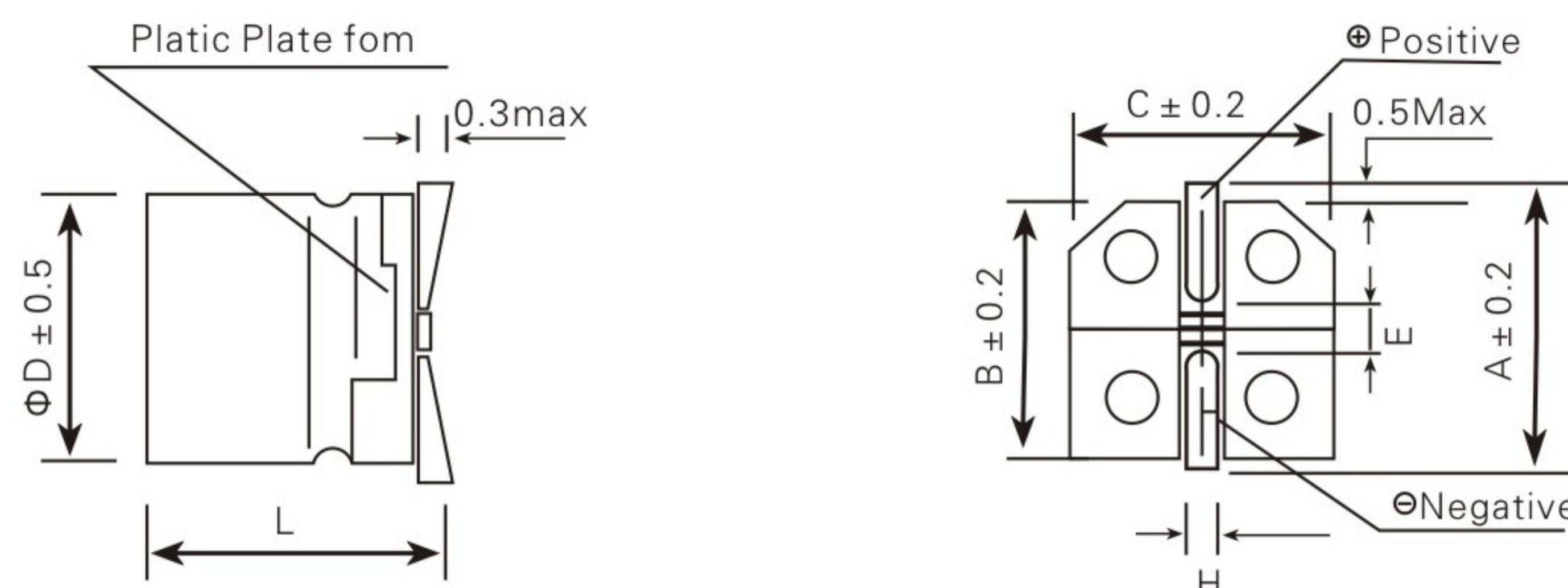
規格書 SPECIFICATION

項目 Items	特性 Characteristics												
工作溫度範圍 Operating Temperature Range	$-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$												
額定電壓範圍 Rated Working Voltage Range	6.3~50V.DC												
標稱電容量範圍 Nominal Capacitance Range	0.1 μF ~100 μF												
標稱電容量允許偏差 Nominal Capacitance Tolerance	$\pm 20\%$ (120Hz+20°C)												
泄漏電流範圍 Leakage Current(MAX)	$I \leq 0.02\text{CV}(\mu\text{A})$ or 6(μA) after 2 minutes												
損耗角正切值 Dissipation Factor(MAX) $\tan \delta$ (20°C, 120Hz2)	Rated Voltage(V)	6.3	10	16	25	35	50						
	$\tan \delta$	0.35	0.26	0.24	0.22	0.20	0.20						
耐久性 Load Life	<p>+105°C 施加額定工作電壓1000H後, (每250H換向一次)放置16H, 電容器應滿足以下要求。 After applying rated voltage with max ripple current for 1000hrs at 105°C, (with the polarity inverted every 250 hours) and then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tr> <td>Capacitance Change</td><td>Within $\pm 30\%$ of the initial value</td></tr> <tr> <td>Dissipation Factor</td><td>Not more than 300% of the specified value</td></tr> <tr> <td>Leakage Current</td><td>Not more than the specified value</td></tr> </table>							Capacitance Change	Within $\pm 30\%$ of the initial value	Dissipation Factor	Not more than 300% of the specified value	Leakage Current	Not more than the specified value
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高温貯存 Shelf Life	<p>+105°C, 賽存500H後, 放置16H, 電容器應滿足以下要求。 After storage for 500hrs at 105°C, then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tr> <td>Capacitance Change</td><td>Within $\pm 30\%$ of the initial value</td></tr> <tr> <td>Dissipation Factor</td><td>Not more than 300% of the specified value</td></tr> <tr> <td>Leakage Current</td><td>Within 200% of initial specified value</td></tr> </table>							Capacitance Change	Within $\pm 30\%$ of the initial value	Dissipation Factor	Not more than 300% of the specified value	Leakage Current	Within 200% of initial specified value
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耐焊接熱 Resistance to Soldering Heat	<p>在250°C的條件下, 電容器在熱板上保持30秒, 然後從熱板上取出電容器, 讓其在室溫下恢復, 電容器應滿足以下要求。 The capacitors shall be kept on then hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement:</p> <table border="1"> <tr> <td>Capacitance Change</td><td>Within $\pm 10\%$ of the initial value</td></tr> <tr> <td>Dissipation Factor</td><td>Not more than the initial specified value</td></tr> <tr> <td>Leakage Current</td><td>Not more than the initial specified value</td></tr> </table>							Capacitance Change	Within $\pm 10\%$ of the initial value	Dissipation Factor	Not more than the initial specified value	Leakage Current	Not more than the initial specified value
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低溫特性及阻抗比 Low Temperature Stability Impedance Ratio(MAX) 120Hz	Rated Voltage (V)	6.3	10	16	25	35	50						
	Z-25°C/Z+20°C	4	3	2	2	2	2						
	Z-40°C/Z+20°C	10	8	6	4	3	3						
其它 Other	IEC 60384 JIS-C5101												

貼片
鋁
電解
電容

尺寸圖 Dimensions

(Φ4~Φ6.3)



單位: mm

ΦD	L	A	B	C	E	H
4	5.4 ± 0.3	5.0	4.3	4.3	1.0	0.5~0.9
5	5.4 ± 0.3	6.0	5.3	5.3	1.5	0.5~0.9
6.3	5.4 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9
6.3	7.7 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9

一覽表 Standard

Voltage (Code)		6.3		10		16		25		35		50	
Cap. (μF)	Code	Case Size	Ripple Current										
0.1	104											4 × 5.4	1.0
0.22	224											4 × 5.4	2.0
0.33	334											4 × 5.4	2.8
0.47	474											4 × 5.4	4.0
1	105											4 × 5.4	8.4
2.2	225									5 × 5.4	8.4	5 × 5.4	13
3.3	335			4 × 5.4	10	4 × 5.4	13	5 × 5.4	12	5 × 5.4	14	5 × 5.4	17
4.7	475			6.3 × 5.4	20	6.3 × 5.4	22	5 × 5.4	14	6.3 × 5.4	18	6.3 × 5.4	20
10	106	6.3 × 5.4	25	6.3 × 5.4	27	6.3 × 5.4	30	6.3 × 7.7	30	6.3 × 7.7	33	6.3 × 7.7	36
22	226	6.3 × 5.4	28	6.3 × 5.4	33	6.3 × 5.4	37	6.3 × 7.7	50				
33	336	6.3 × 7.7	37										
47	476												
100	107												

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)

紋波電流補正系數 Multiplier For Ripple Current

頻率系數 Frequency coefficient

單位: mm

頻率 Frequency	50Hz	120Hz	300Hz	1kHz	≥10kHz
系數 Coefficient	0.8	1.00	1.17	1.36	1.50