

產品特點 Features

- ◎產品直徑 Case diameter Φ 4mm~Φ 18mm
- ◎適用於再回流焊 Reflow soldering is available
- ◎適用於高密度表面組裝 Available for high densify surface mounting
- ◎性能穩定,可靠性高 High stability and reliability
- ◎壽命105℃ 10000小時標準品 Life time 105℃ 10000hrs standard product



規格書 SPECIFICATION

項目 Items	特性 Characteristics									
工作溫度範圍 Category Temperature Range	-40℃~+105℃									
額定電壓範圍 Rated Working Voltage Range	6.3~450 V.DC									
標稱電容量範圍 NominalCapacitance Range	± 20%(120Hz+20℃)									
標稱電容量允許偏差 Nominal Capacitance Tolerance	1 μ F~1000 μ F									
泄漏電流範圍 Leakage Current(MAX)	6.3~50Vdc				160V~450Vdc				(20℃)	
	I=0.03CV(μ A) or4 (μ A)取較大者 whichever is greater(after 2 minutes)				I≤0.04CV+100 (μ A) (after 2 minutes)					
損耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz2)	Rated Voltage(V)		6.3	10	16	25	35	50	160~250	400~450
	Tan δ		0.32	0.28	0.26	0.16	0.14	0.14	0.20	0.24
耐久性 Load Life	在105℃環境中，連續施加額定電壓10000小時，常溫恢復16小時，電容器應滿足以下要求。 In 105℃ degrees Celsius environment,continuous application of rated voltage for 10000 hours,After 16 hours was measured at room temperature,the capacitors shall meet the following requirements:									
	Rated Voltage(V)		6.3~50V				160V~450V			
	Capacitance Change		Within ± 30% of the initial value				Within ± 20% of the initial value			
	Dissipation Factor		Not more than 300% of the specified value				Not more than 200% of the specified value			
	Leakage Current		Not more than the specified value				Not more than the specified value			
高溫貯存 Shelf Life	105℃環境中，無負荷放置1000小時，常溫恢復16小時後進行測量時，電容器應滿足以下要求。 In 105℃ degrees Celeius environment,without load for 1000 hours ,After 16 hous were measured at room temperature,the capacitors shall meet the following requirements									
	Rated Voltage(V)		6.3~50V				160V~450V			
	Capacitance Change		Within ± 30% of the initial value				Within ± 20% of the initial value			
	Dissipation Factor		Not more than 300% of the specified value				Not more than 200% of the specified value			
	Leakage Current		Within ± 300% of the initial value				Within ± 200% of the initial value			
耐焊接熱 Resistance to Soldering Heat	在250℃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℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:									
	Capacitance Change		Within ± 10% of the initial value							
	Dissipation Factor		Not more than the initial specified value							
	Leakage Current		Not more than the initial specified value							
低溫特性及阻抗比 Low Temperature Stability Impedance Ratio(MAX) 120Hz	Roted Voltage (V)		6.3	10	16	25	35	50	160~250	400~450
	Z-25℃/Z+20℃		4	3	2	2	2	2	6	6
	Z-40℃/Z+20℃		10	8	6	4	3	3	10	18
其它 Other	IEC 60384 JIS-C5101									

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Fig.1 (Φ4~Φ10)

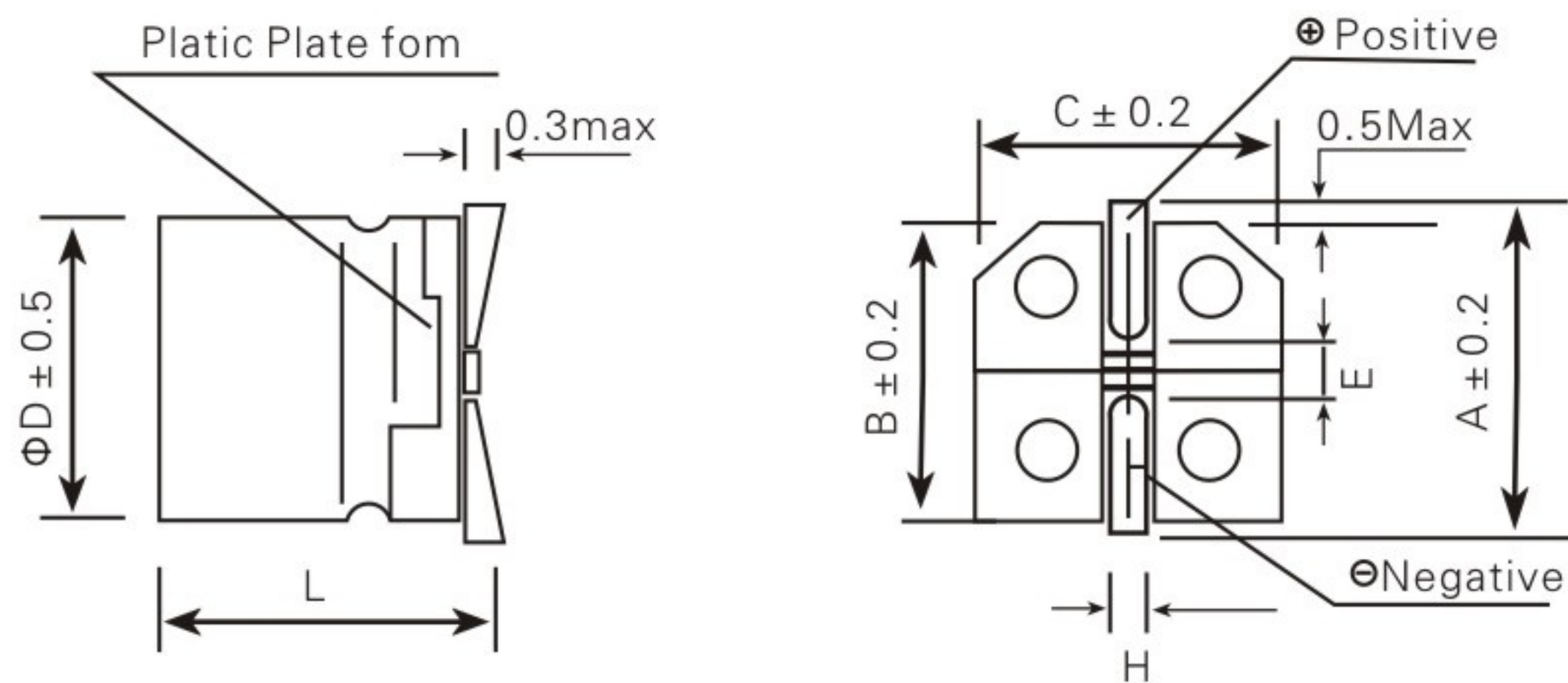
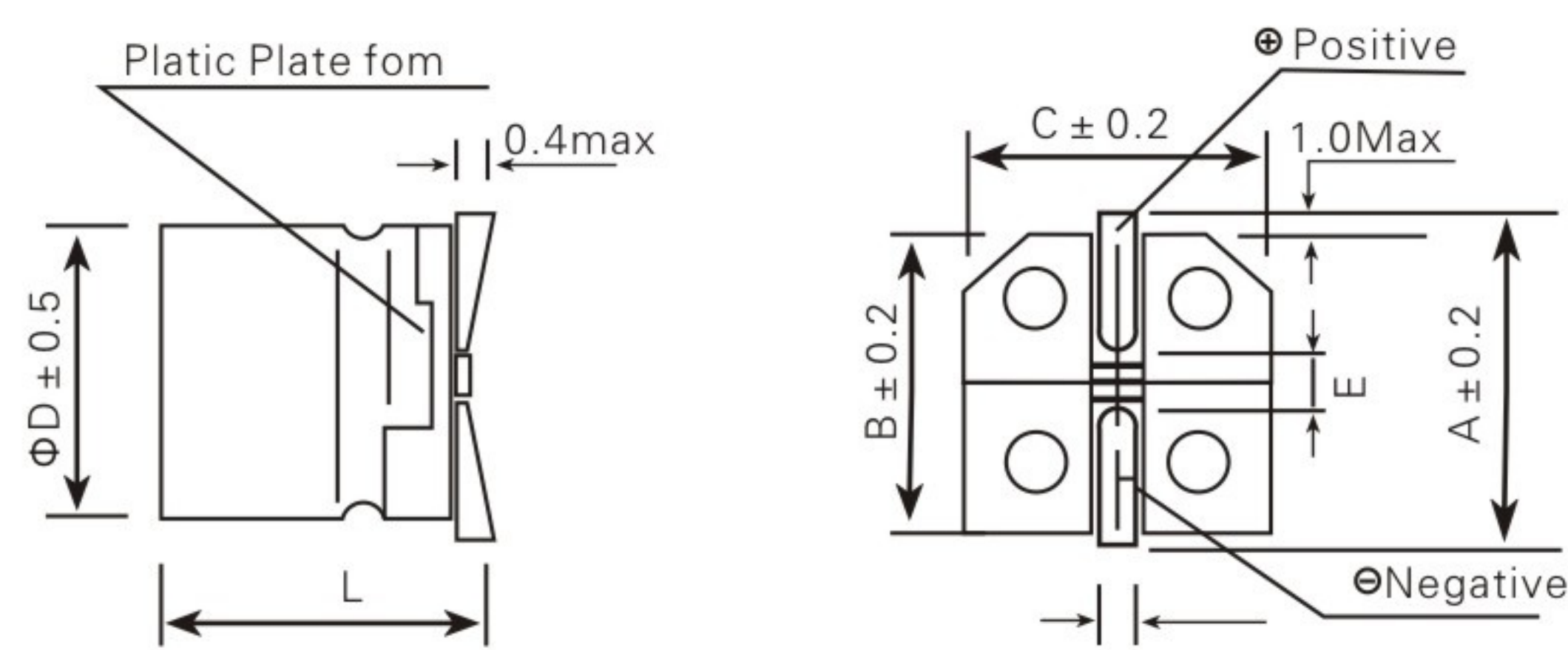


Fig.2 (≥ Φ12.5)



單位：mm

ΦD	L	A	B	C	E	H	Fig.No.
6.3	7.7 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	10.2 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
8	10.2 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
8	12.5 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
10	10.2 ± 0.5	11.1	10.3	10.3	4.5	0.8~1.1	1
10	12.5 ± 0.5	11.1	10.3	10.3	4.5	0.8~1.1	1
12.5	13.5 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
12.5	16 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
16	16.5 ± 0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
16	21.5 ± 0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
18	16.5 ± 0.5	20.0	19.0	19.0	6.4	1.0~1.4	2
18	21.5 ± 0.5	20.0	19.0	19.0	6.4	1.0~1.4	2

一覽表 Standard

Voltage (Code)		6.3			10			16			25			35			50		
Cap. (μF)	Code	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current
10	106													6.3 × 7.7	0.14	31			
22	226													6.3 × 7.7	0.14	43			
33	336										6.3 × 7.7	0.16	48				8 × 10.2	0.14	79
47	476													8 × 10.2	0.14	90	8 × 10.2	0.14	95
100	107	6.3 × 7.7	0.32	60				6.3 × 7.7	0.26	50	8 × 10.2	0.16	119	8 × 10.2	0.14	132	10 × 10.2	0.14	155
220	227				8 × 10.2	0.28	145							10 × 10.2	0.14	220			
330	337	8 × 10.2	0.32	165				8 × 10.2	0.26	159									
470	477	8 × 10.2	0.32	196				8 × 10.2	0.26	194									
1000	108	10 × 10.2	0.32	315				10 × 10.2	0.26	260									

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz
在105°C 120Hz條件的最大紋波值

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

一覽表 Standard

Voltage (Code)		160			200			250			400			450		
Cap. (μ F)	Code	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current	Case Size	tanδ	Ripple Current
1	105							63×10.2	0.20	20	63×10.2	0.24	17	8×10.2	0.24	20
2.2	225							63×10.2	0.20	31	8×10.2	0.24	30	10×10.2	0.24	35
3.3	335							8×10.2	0.20	43	10×10.2	0.24	39	10×10.2	0.24	38
4.7	475				8×10.2	0.20	53	8×10.2	0.20	52	10×10.2	0.24	56	10×10.2	0.24	59
5.6	565				8×10.2	0.20	58	8×12.5	0.20	62	10×10.2	0.24	66	12.5×13.5	0.24	75
6.8	685	8×10.2	0.20	68	8×10.2	0.20	64	10×10.2	0.20	72	12.5×13.5	0.24	72			
8.2	825	10×10.2	0.20	85	8×12.5	0.20	77	10×12.5	0.20	85						
10	106	10×10.2	0.20	95	12.5×13.5	0.20	110	12.5×13.5	0.20	110						
12	126	10×10.2	0.20	104	12.5×3.5	0.20	125	12.5×3.5	0.20	120						
15	156	12.5×3.5	0.20	140	12.5×13.5	0.20	140									

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz
在105°C 120Hz條件的最大紋波值

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 cocfficient

單位：mm

頻率Frequency	120Hz	1kHz	10kHz	100kHz
系數Cocfficient	1.00	1.60	1.80	2.00

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