

產品特點 Features

- ◎產品直徑 Case diameter Φ4~12.5mm
- ◎適用於再回流焊 Reflow soldering is available
- ◎適用於高密度表面組裝 Available for high density surface mounting
- ◎性能穩定,可靠性高 High stability and reliability
- ◎壽命105℃2000小時標準品 Life time105℃2000 hrs standard product



規格書 SPECIFICATION

項目 Items	特性 Characteristics										
工作溫度範圍 Operating Temperature Range	55℃~+105℃										
額定電壓範圍 Rated Working Voltage Range	4–100V.DC										
標稱電容量範圍 NominalCapacitance Range	1 μ F~2200 μ F										
標稱電容量允許偏差 Nominal Capacitance Tolerance	± 20%(120Hz+20℃)										
泄漏電流範圍 Leakage Current(MAX)	I=0.01CV(μ A)or 3(u A) after 2 minutes I≤Leakage Current(μ A) C=Nominal Capacitance(μ F) V= Roted Voltage(V)										
損耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz2)	Rated Voltage(V)		4	6.3	10	16	25	35	50	63	100
	Tan δ		0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
耐久性 Load Life	+105℃施加額定工作電壓與額定紋波2000H後，放置16H,電容器應滿足以下要求。 Ater applying rated voltage with max ripple current for 2000hrs at 105℃,and then resumed 16 hours, the capacitors shall meet the following requirements										
	Capacitance Change		Within ± 30% of the initial value								
	Dissipation Factor		Not more than 200% of the specified value								
	Leakage Current		Not more than the specified value								
高溫貯存 Shelf Life	+105℃不加電壓，貯存1000H後，放置16H，電容器應滿足以下要求。 After storage for 1000hrs at 105℃, then resumed 16 hours, the capacitors shall meet the following requirements										
	Capacitance Change		Within ± 30% of the initial value								
	Dissipation Factor		Not more than 200% of the specified value								
	Leakage Current		Within 300% of initial specified 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 value								
低溫特性及阻抗比 Low Temperature Stability Impedance Ratio(MAX) 120Hz	Roted Voltage (V)		4	6.3	10	16	25	35	50	63	100
	Z–25℃/Z+20℃ (120Hz)	< Φ8	7	4	3	2	2	2	2	2	2
		≥ Φ8	7	5	4	3	2	2	2	2	2
	Z–40℃/Z+20℃ (120Hz)	< Φ8	15	8	8	4	4	3	3	3	3
		≥ Φ8	15	10	8	6	4	3	3	3	3
其它 Other	IEC 60384 JIS–C5101										

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尺寸圖 Dimensions
Fig.1(Φ4~Φ10)

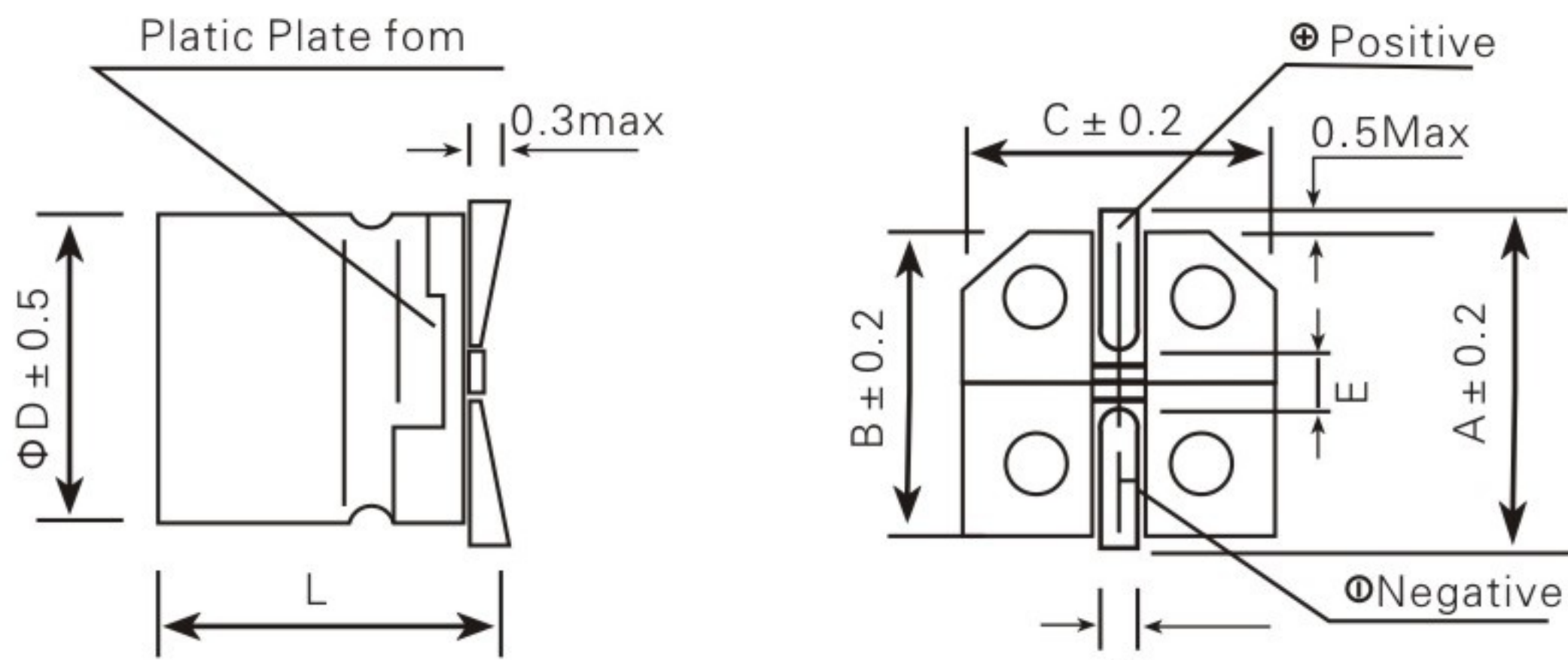
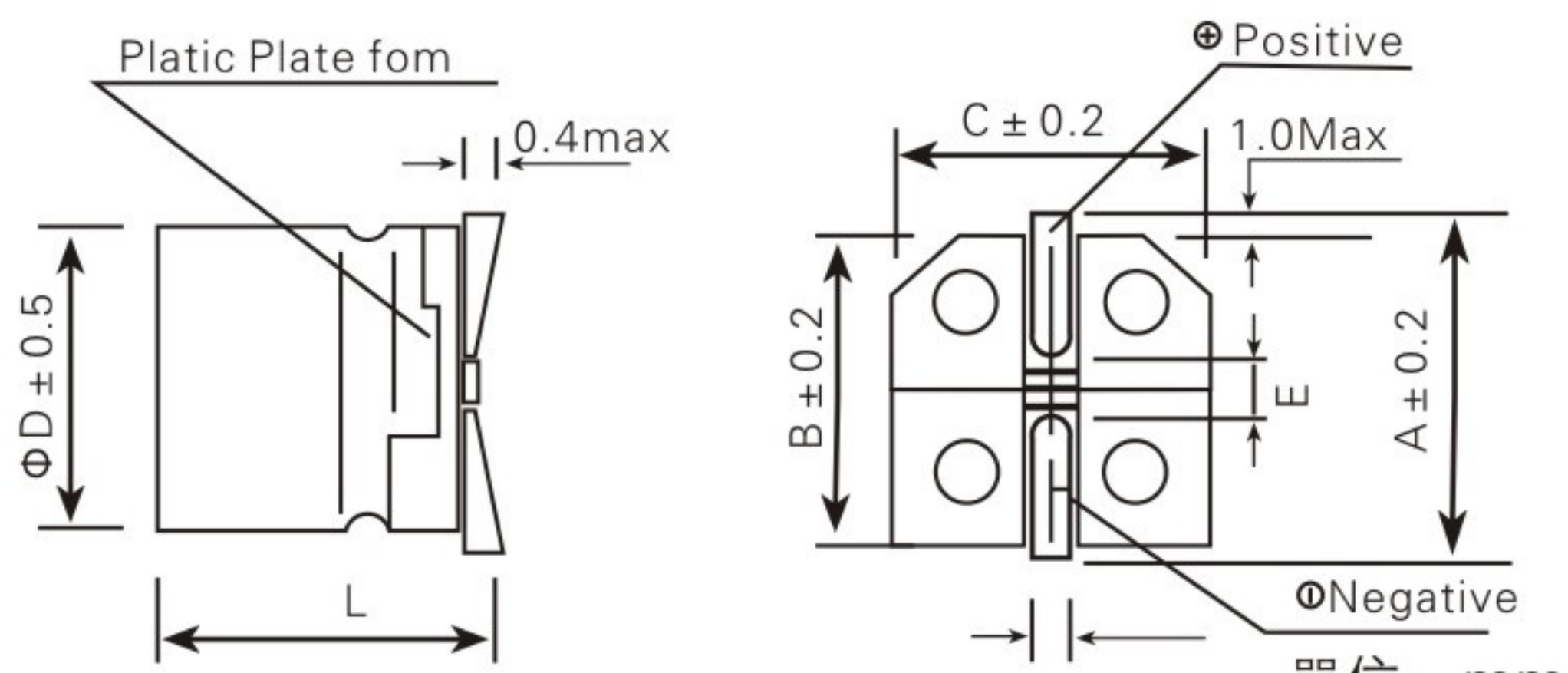


Fig.2(Φ12.5)



單位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4±0.3	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4±0.3	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4±0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	7.7±0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
8	6.5±0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
8	10.2±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
12.5	13.5±0.5	13.7	13.0	13.0	4.4	1.0~1.4	2

一覽表 Standard

Voltage (Code)		6.3		10		16		25	
Cap. (μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105								
2.2	225								
3.3	335								
4.7	475							4 × 5.4	14
10	106					4 × 5.4	17	4 × 5.4	15
								5 × 5.4	21
22	226	4 × 5.4	22	4 × 5.4	21	4 × 5.4	21	5 × 5.4	26
				5 × 5.4	26	5 × 5.4	28	6.3 × 5.4	37
33	336	4 × 5.4	23	4 × 5.4	23	5 × 5.4	29	5 × 5.4	30
		5 × 5.4	28	5 × 5.4	34			6.3 × 5.4	45
47	476	4 × 5.4	26	5 × 5.4	31	5 × 5.4	33	6.3 × 5.4	49
		5 × 5.4	34	6.3 × 5.4	42	6.3 × 5.4	48	8 × 6.5	93
100	107	5 × 5.4	40	5 × 5.4	40	6.3 × 5.4	63	6.3 × 7.7	93
		6.3 × 5.4	52	6.3 × 5.4	55	6.3 × 7.7	72		
220	227	6.3 × 5.4	69	6.3 × 5.4	78	6.3 × 7.7	110	8 × 10.2	183
		6.3 × 7.7	108	6.3 × 7.7	110	8 × 6.5	110		
				8 × 6.5	110				
330	337	6.3 × 7.7	108	8 × 10.2	108	8 × 10.2	201	8 × 10.2	228
470	417	6.3 × 7.7	125	6.3 × 7.7	160	8 × 10.2	240	10 × 10.2	286
		8 × 10.2	214	8 × 10.2	214	10 × 10.2	300		
680	687	8 × 10.2	214	10 × 10.2	277	10 × 10.2	322	12.5 × 13.5	440
1000	108	8 × 10.2	235	10 × 10.2	320	10 × 10.2	347	12.5 × 13.5	500
		10 × 10.2	310						
1500	158	10 × 10.2	320	12.5 × 13.5	540	12.5 × 13.5	540		
2200	228	12.5 × 13.5	600	12.5 × 13.5	600				

Maximum Allowable Ripple Current (mAmps) at 105℃ 120Hz
在105℃ 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)		35		50		63		100	
Cap. (μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105			4 × 5.4	8.0	4 × 5.4	7.2	4 × 5.4	7.2
2.2	225			4 × 5.4	12	4 × 5.4	12	6.3 × 5.4	15
3.3	335	4 × 5.4	14	4 × 5.4	14	5 × 5.4	14	6.3 × 5.4	22
4.7	475	4 × 5.4	15	4 × 5.4	14	5 × 5.4	17	6.3 × 5.4	23
				5 × 5.4	17	6.3 × 5.4	22	6.3 × 7.7	38
10	106	4 × 5.4	15	5 × 5.4	23	6.3 × 5.4	26	6.3 × 7.7	38
		5 × 5.4	22	6.3 × 5.4	25	6.3 × 7.7	41		
22	226	5 × 5.4	30	6.3 × 5.4	43	6.3 × 7.7	53	8 × 10.2	90
		6.3 × 5.4	40						
33	336	6.3 × 5.4	45	6.3 × 7.7	63	8 × 10.7	116	10 × 10.2	136
		8 × 6.5	86						
47	476	6.3 × 5.4	54	6.3 × 7.7	66	8 × 10.2	125	10 × 10.2	148
		6.3 × 7.7	75			10 × 10.2	168		
100	107	6.3 × 7.7	87	8 × 10.2	146	10 × 10.2	200	12.5 × 13.5	276
		8 × 10.2	125	10 × 10.2	178				
220	227	8 × 10.2	195	10 × 10.2	230	12.5 × 13.5	380		
		10 × 10.2	230						
330	337	10 × 10.2	247	12.5 × 13.5	360				
470	417	10 × 10.2	286						
680	687	12.5 × 13.5	440						
1000	108								
1500	158								
2200	228								

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

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

紋波電流補正系數 Multiplier For Ripple Current 單位: mm

頻率	Frequency	50Hz	120Hz	300Hz	1kHz	≥10kHz
系數	Coefficient	0.70	1.00	1.17	1.36	1.50

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