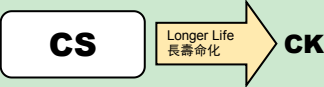


STANDARD Upgrade 升級

標準品

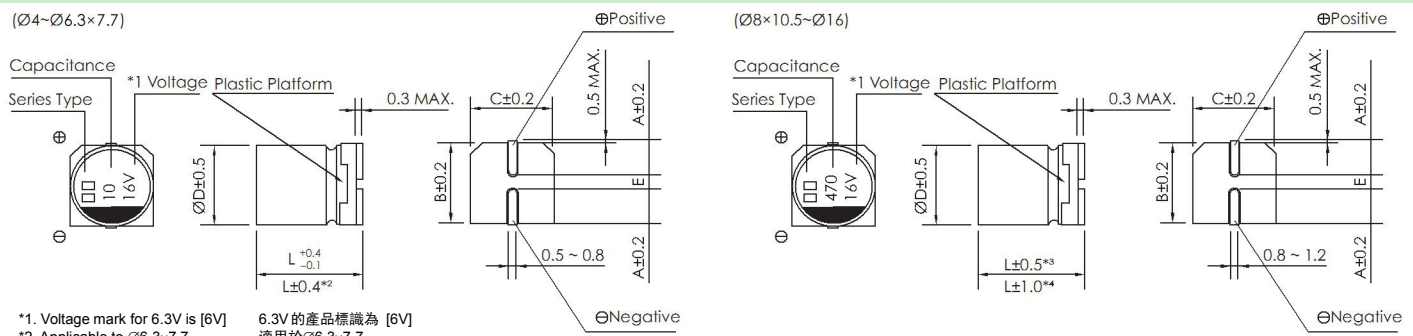
- Operating with general temperature range -40~+105°C
適用於 -40~+105°C 的常規溫度範圍
- Load life of 2000 hours
負荷壽命 2000 小時
- Comply with the RoHS directive
符合 RoHS 指令



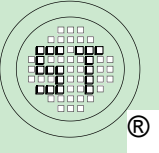
SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性												
Operation Temperature Range 使用溫度範圍	-40 ~ +105°C												
Voltage Range 額定工作電壓範圍	4 ~ 450V												
Capacitance Range 靜電容量範圍	0.1 ~ 6800µF												
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C												
Leakage Current 漏電流	Rated Voltage 額定工作電壓	6.3 ~ 100V								160 ~ 450V			
	Case size 尺寸	Ø4~Ø10				Ø12.5~Ø16				Ø6.3~Ø16			
	Time 時間	after 2 min. (application of rated voltage) 2 分鐘後（施加額定工作電壓）				after 1 min. (application of rated voltage) 1 分鐘後（施加額定工作電壓）				after 5 min. (application of rated voltage) 5 分鐘後（施加額定工作電壓）			
	Leakage current 漏電流	≤0.01CV or 3µA, whichever is greater ≤0.01CV 或 3µA，取較大值				≤0.03CV or 4µA, whichever is greater ≤0.03CV 或 4µA，取較大值				≤0.04CV+100µA, whichever is greater ≤0.04CV+100µA，取較大值			
Dissipation Factor (tan δ) 損耗角正切	Measurement frequency 測試頻率: 120Hz, Temperature 溫度: 20°C												
	Rated Voltage (V) 額定工作電壓	4	6.3	10	16	25	35	50	63	100	160~250	350~450	
	tan δ (max.) 最大損耗角正切	Ø4~Ø10 Ø12.5~Ø16	0.42 0.45	0.28 0.38	0.24 0.34	0.20 0.30	0.14 0.28	0.12 0.22	0.12 0.18	0.10 0.14	0.10 0.10	0.20 0.20	0.25 0.25
Stability at Low Temperature 低溫特性	Measurement frequency 測試頻率: 120Hz												
	Rated Voltage (V) 額定工作電壓		4	6.3	10	16	25	35	50	100	160~250	350~450	
	Impedance Ratio 阻抗比 ZT/Z20 (max.)	Ø4~Ø10 Ø12.5~Ø16	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	2	3	
			Z(-40°C)/Z(20°C)	15	8	6	4	4	3	3	3	6	
			Z(-25°C)/Z(20°C)	7	5	4	3	2	2	2	2	4	
		Z(-40°C)/Z(20°C)	17	12	10	8	5	4	3	6	10		
Load Life 高溫負荷特性	After 2000 hours application of the rated voltage at 105°C, they meet the characteristics listed below. 在 85°C 環境中施加額定工作電壓 2000 小時後，電容器的特性符合下表的要求。												
	Capacitance Change 靜電容量變化率		Within ±20% of initial value (Within ±30% of initial value for 4V) 初始值的±20%以內（4V 為±30%以內）										
	Dissipation Factor 損耗角正切		200% or less of initial specified value 不大於規範值的 200%										
	Leakage Current 漏電流		initial specified value or less 不大於規範值										
Shelf Life 高溫貯存特性	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above. 在 105°C 環境中無負荷放置 2000 小時後，電容器的特性符合高溫負荷特性中所列的規定值。												
Resistance to Soldering Heat 耐焊接熱特性	After reflow soldering and restored at room temperature, they meet the characteristics listed below. 經過回流焊並冷卻至室溫後，電容器的特性符合下表的要求。												
	Capacitance Change 靜電容量變化率		Within ±10% of initial value 初始值的±10%以內										
	Dissipation Factor 損耗角正切		initial specified value or less 不大於規範值										
	Leakage Current 漏電流		initial specified value or less 不大於規範值										
Marking 標識	Black print on the case top. 鋁殼頂部黑字印刷。												

DRAWING (Unit: mm) 外形圖



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□ DIMENSIONS (Unit: mm) 尺寸表

ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7	8 x 6.2	8 x 10.5	8 x 13.5	10 x 10.5	10 x 13.5	12.5 x 13.5	12.5 x 16	16 x 16.5
A	2.0	2.2	2.6	2.6	3.0	3.0	3.0	3.3	3.3	4.9	4.9	5.8
B	4.3	5.3	6.6	6.6	8.4	8.4	8.4	10.4	10.4	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.4	8.4	8.4	10.4	10.4	13.0	13.0	17.0
E ± 0.2	1.0	1.4	1.9	1.9	2.2	3.1	3.1	4.7	4.7	4.7	4.7	6.4
L	5.4	5.4	5.4	7.7	6.2	10.5	13.5	10.5	13.5	13.5	16.0	16.5

□ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 規格尺寸及最大允許紋波電流

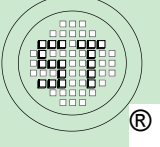
WV Code 代碼	µF	4	6.3	10	16	25
		0G	0J	1A	1C	1E
4.7	4R7					4 x 5.4 13
10	100				4 x 5.4 18	5 x 5.4 (4 x 5.4) 20 (14)
22	220		4 x 5.4 22	5 x 5.4 (4 x 5.4) 25 (20)	5 x 5.4 (4 x 5.4) 27 (20)	6.3 x 5.4 (5 x 5.4) 36 (25)
33	330	5 x 5.4 (4 x 5.4) 30 (18)	5 x 5.4 (4 x 5.4) 27 (22)	5 x 5.4 (4 x 5.4) 30 (22)	6.3 x 5.4 (5 x 5.4) 40 (28)	6.3 x 5.4 (5 x 5.4) 44 (29)
47	470	5 x 5.4 (4 x 5.4) 36 (24)	5 x 5.4 (4 x 5.4) 33 (25)	5 x 5.4 (4 x 5.4) 30 (25)	6.3 x 5.4 (5 x 5.4) 48 (31)	6.3 x 5.4 48
100	101	6.3 x 5.4 (5 x 5.4) 60 (43)	6.3 x 5.4 (5 x 5.4) 50 (39)	6.3 x 5.4 (5 x 5.4) 53 (45)	6.3 x 5.4 60	6.3 x 7.7 (8 x 6.2) 91 (115)
150	151	6.3 x 5.4 52	6.3 x 5.4 55	6.3 x 5.4 62	6.3 x 7.7 95	8 x 10.5 (6.3 x 7.7) 140 (100)
220	221	6.3 x 5.4 57	6.3 x 7.7 (6.3 x 5.4) 105 (67)	6.3 x 7.7 (6.3 x 5.4) 105 (67)	8 x 10.5 (6.3 x 7.7) (8 x 6.2) 150 (105) (85)	8 x 10.5 175
330	331	6.3 x 7.7 100	6.3 x 7.7 105	8 x 10.5 196	8 x 10.5 195	10 x 10.5 (8 x 10.5) 240 (220)
470	471	6.3 x 7.7 105	8 x 10.5 (6.3 x 7.7) 210 (120)	8 x 10.5 (6.3 x 7.7) 210 (120)	10 x 10.5 (8 x 10.5) 295 (230)	10 x 10.5 280
680	681	8 x 10.5 210	8 x 10.5 210	10 x 10.5 270	10 x 10.5 315	10 x 13.5 400
1000	102	8 x 10.5 230	10 x 10.5 (8 x 10.5) 300 (230)	10 x 10.5 (8 x 10.5) 315 (230)	12.5 x 13.5 (10 x 13.5) (10 x 10.5) 500 (390) (340)	12.5 x 13.5 580
1500	152	10 x 10.5 315	10 x 13.5 (10 x 10.5) 450 (315)	10 x 13.5 460	12.5 x 13.5 550	12.5 x 16 850
2200	222	10 x 13.5 (10 x 10.5) 440 (340)	12.5 x 13.5 (10 x 13.5) 620 (500)	12.5 x 13.5 680	16 x 16.5 (12.5 x 16) 950 (750)	16 x 16.5 1050
3300	332	10 x 13.5 490	12.5 x 16 (12.5 x 13.5) 700 (660)	16 x 16.5 1000	16 x 16.5 1000	
4700	472	12.5 x 13.5 600	16 x 16.5 1000			Case size 尺寸
6800	682	16 x 16.5 (12.5 x 16) 950 (650)				Ripple current 紋波電流

WV Code 代碼	µF	35	50	63	100
		1V	1H	1J	2A
0.1	0R1		4 x 5.4 0.7	4 x 5.4 0.7	
0.22	R22		4 x 5.4 1.6	4 x 5.4 1.6	
0.33	R33		4 x 5.4 2.5	4 x 5.4 2.5	
0.47	R47		4 x 5.4 3.5	4 x 5.4 3.5	
1	010		4 x 5.4 7	4 x 5.4 7	4 x 5.4 7
2.2	2R2		4 x 5.4 11	4 x 5.4 11	6.3 x 5.4 14
3.3	3R3	4 x 5.4 13	4 x 5.4 13	5 x 5.4 13	6.3 x 7.7 (6.3 x 5.4) 32 (20)
4.7	4R7	4 x 5.4 14	5 x 5.4 (4 x 5.4) 16 (13)	5 x 5.4 16	6.3 x 7.7 (6.3 x 5.4) 35 (21)
10	100	5 x 5.4 (4 x 5.4) 21 (14)	6.3 x 5.4 (5 x 5.4) 24 (21)	6.3 x 7.7 (6.3 x 5.4) 39 (24)	8 x 10.5 (6.3 x 7.7) 77 (35)
22	220	6.3 x 5.4 (5 x 5.4) 38 (30)	6.3 x 7.7 (6.3 x 5.4) 51 (42)	8 x 10.5 (6.3 x 7.7) 98 (49)	10 x 10.5 (8 x 10.5) 126 (84)
33	330	6.3 x 5.4 42	6.3 x 7.7 60	8 x 10.5 112	10 x 10.5 133
47	470	6.3 x 7.7 (6.3 x 5.4) 70 (50)	8 x 10.5 (6.3 x 7.7) 120 (63)	10 x 10.5 (8 x 10.5) 160 (119)	12.5 x 13.5 (10 x 13.5) (10 x 10.5) 250 (160) (140)
68	680			Case size 尺寸	Ripple current 紋波電流

•Case size ØDxL(mm), ripple current (mA rms) at 85°C, 120Hz •尺寸ØDxL(mm), 紋波電流(mA rms)於 85°C, 120Hz

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT
 規格尺寸及最大允許紋波電流

WV Code 代碼	μF Code 代碼	35		50		63		100		160	
		1V		1H		1J		2A		2C	
22	220									10 × 13.5	50
33	330									12.5 × 13.5	95
47	470									12.5 × 13.5 (16 × 16.5)	205 (240)
100	101	8 × 10.5 (6.3 × 7.7)	120 (84)	10 × 10.5 (8 × 10.5)	170 (140)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	270 (210) (196)	16 × 16.5 (12.5 × 13.5)	450 (380)	16 × 16.5	250
150	151	8 × 10.5	155	10 × 10.5	170	10 × 13.5	225				
220	221	10 × 10.5 (8 × 10.5)	220 (190)	10 × 13.5 (10 × 10.5)	280 (220)	16 × 16.5 (12.5 × 13.5)	560 (470)	16 × 16.5	550		
330	331	10 × 10.5	245	16 × 16.5 (12.5 × 13.5) (10 × 13.5)	600 (420) (295)	16 × 16.5 (12.5 × 16)	700 (510)				
470	471	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	520 (375) (280)	16 × 16.5 (12.5 × 16)	700 (520)	16 × 16.5	750				
680	681	12.5 × 13.5	530	16 × 16.5	750					Case size 尺寸	Ripple current 紋波電流
1000	102	16 × 16.5 (12.5 × 16)	750 (600)								

WV Code 代碼	μF Code 代碼	200		250		350		400		450	
		2D		2E		2V		2G		2W	
2.2	2R2			8 × 13.5	24	8 × 13.5	24	8 × 13.5	26	10 × 13.5	31
3.3	3R3			8 × 13.5	34	8 × 13.5	34	8 × 13.5 10 × 13.5	34 40	10 × 13.5	40
4.7	4R7	8 × 13.5	40	8 × 13.5	40	8 × 13.5 10 × 13.5	38 85	8 × 13.5 10 × 13.5 (12.5 × 13.5)	42 45 (48)	10 × 13.5 (12.5 × 13.5)	42 45
10	100	10 × 13.5	75	10 × 13.5	75	12.5 × 13.5	105	12.5 × 13.5	50	12.5 × 13.5	55
22	220	12.5 × 13.5	105	12.5 × 13.5	105	16 × 16.5	130	16 × 16.5	85	16 × 16.5	85
33	330	12.5 × 13.5	120	16 × 16.5	135						
47	470	16 × 16.5	220							Case size 尺寸	Ripple current 紋波電流
100	101										

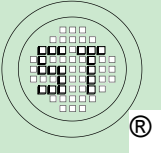
•Case size ∅D×L(mm), ripple current (mA rms) at 85°C, 120Hz
 •尺寸∅D×L(mm), 紋波電流(mA rms)於 85°C, 120Hz

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT
 紋波電流頻率補償系數

Frequency 頻率			50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系數	∅4 ~ ∅10	0.1 ~ 68μF	0.70	1.00	1.17	1.36	1.50
		100 ~ 3300μF	0.85	1.00	1.08	1.20	1.30
	∅12.5 ~ ∅16	~ 68μF	0.75	1.00	1.35	1.57	2.00
		100 ~ 680μF	0.80	1.00	1.23	1.34	1.50
		1000 ~ 6800μF	0.85	1.00	1.10	1.13	1.15

- Taping specifications are given in page 14 “Taping Specifications”. 編帶標準請參閱第 14 頁 “編帶標準”。
- Please refer to page 15 “Package Quantity” for the minimum package quantity. 最小包裝數量請參閱第 15 頁 “包裝數量”。

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