

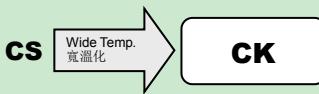
WIDE TEMPERATURE

寬溫品

- Operating with wide temperature range -40 ~ +105°C
適用於 -40 ~ +105°C 的寬溫範圍

- Load life of 2000 hours
負荷壽命 2000 小時

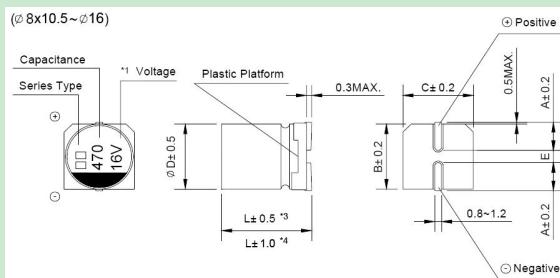
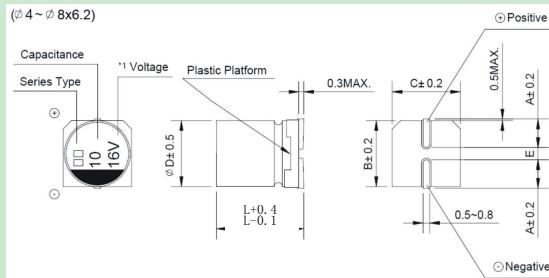
- Comply with the RoHS directive
符合 RoHS 指令



□ 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 ~ 100V																																																										
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	Leakage current ($\varnothing 4 \sim \varnothing 10$) $\leq 0.01\text{CV}$ or $3\mu\text{A}$, whichever is greater (after 2 minutes application of rated voltage) Leakage current ($\varnothing 12.5 \sim \varnothing 16$) $\leq 0.03\text{CV}$ or $4\mu\text{A}$, whichever is greater (after 1 minute application of rated voltage) 漏電流 ($\varnothing 4 \sim \varnothing 10$) $\leq 0.01\text{CV}$ 或 $3\mu\text{A}$, 取較大值 (施加額定工作電壓 2 分鐘後) 漏電流 ($\varnothing 12.5 \sim \varnothing 16$) $\leq 0.03\text{CV}$ 或 $4\mu\text{A}$, 取較大值 (施加額定工作電壓 1 分鐘後)																																																										
Dissipation Factor (tan δ) 損耗角正切	Measurement frequency 測試頻率: 120Hz; Temperature 溫度: 20°C <table border="1"><thead><tr><th>Rated Voltage (V) 額定工作電壓</th><th>4</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th></tr></thead><tbody><tr><td>tan δ (max.)</td><td>$\varnothing 4 \sim \varnothing 10$</td><td>0.35</td><td>0.30</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.14</td><td>0.12</td><td>0.12</td></tr><tr><td>最大損耗角正切</td><td>$\varnothing 12.5 \sim \varnothing 16$</td><td>0.42</td><td>0.38</td><td>0.34</td><td>0.30</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.14</td><td>0.12</td></tr></tbody></table>										Rated Voltage (V) 額定工作電壓	4	6.3	10	16	25	35	50	63	100	tan δ (max.)	$\varnothing 4 \sim \varnothing 10$	0.35	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.12	最大損耗角正切	$\varnothing 12.5 \sim \varnothing 16$	0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.12																	
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Stability at Low Temperature 低溫特性	Measurement frequency 測試頻率: 120Hz <table border="1"><thead><tr><th>Rated Voltage (V) 額定工作電壓</th><th>4</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50~63</th><th>100</th></tr></thead><tbody><tr><td>Impedance Ratio 阻抗比</td><td>$\varnothing 4 \sim \varnothing 10$</td><td>Z(-25°C) / Z(20°C)</td><td>7</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>3</td></tr><tr><td></td><td></td><td>Z(-40°C) / Z(20°C)</td><td>15</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>4</td></tr><tr><td>ZT/Z20 (max.)</td><td>$\varnothing 12.5 \sim \varnothing 16$</td><td>Z(-25°C) / Z(20°C)</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td></td><td></td><td>Z(-40°C) / Z(20°C)</td><td>17</td><td>12</td><td>10</td><td>8</td><td>5</td><td>4</td><td>3</td></tr></tbody></table>										Rated Voltage (V) 額定工作電壓	4	6.3	10	16	25	35	50~63	100	Impedance Ratio 阻抗比	$\varnothing 4 \sim \varnothing 10$	Z(-25°C) / Z(20°C)	7	4	3	2	2	2	3			Z(-40°C) / Z(20°C)	15	8	6	4	4	3	4	ZT/Z20 (max.)	$\varnothing 12.5 \sim \varnothing 16$	Z(-25°C) / Z(20°C)	7	5	4	3	2	2	2			Z(-40°C) / Z(20°C)	17	12	10	8	5	4	3
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		Z(-40°C) / Z(20°C)	17	12	10	8	5	4	3																																																		
Load Life 高溫負荷特性	After 2000 hrs. (1000 hrs. for $\varnothing 4 \sim \varnothing 6.3 \times 5.4$) application of the rated voltage at 105°C, they meet the characteristics listed below. 在 105°C 環境中施加額定工作電壓 2000 小時 ($\varnothing 4 \sim \varnothing 6.3 \times 5.4$ 為 1000 小時) 後，電容器的特性符合下表的要求。																																																										
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 1000 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。																																																										
Humidity Life 恒濕特性	After leaving capacitors under no load at 85°C and 85%RH for 500 hours, they meet the specified value for resistance to soldering heat characteristics listed above. 在 85°C 與 85%RH 環境中無負荷放置 500 小時後，電容器的特性符合耐焊接熱特性中所列的規定值。																																																										
Storage 儲存	Storage conditions should be: Temperature: +5°C ~ +35°C; Humidity: lower than 75%; Place: indoor. 儲存環境應為：溫度：+5°C ~ +35°C；相對濕度<75%；儲存場所：室內。																																																										
Working conditions 工作條件	Make sure that no higher than the rated voltage and temperature is applied the capacitor. 確認無超過額定電壓和額定溫度通過電容器。																																																										
Marking 標示	Black print on the case top. 鋁殼頂部黑字印刷。																																																										

□ DRAWING (Unit: mm) 外形圖



*1. Voltage mark for 6.3V is [6V]

6.3V 的產品標識為 [6V]

*3. Applicable to $\varnothing 8 \times 10.5 \sim \varnothing 10$

適用於 $\varnothing 8 \times 10.5 \sim \varnothing 10$

*4. Applicable to $\varnothing 12.5 \sim \varnothing 16$

適用於 $\varnothing 12.5 \sim \varnothing 16$



CK Series

DIMENSIONS (Unit: mm) 尺寸表

$\varnothing D \times L$	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	10 x 10.5	10 x 13.5	12.5 x 13.5	12.5 x 16	16 x 16.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
E±0.2	1.0	1.3	2.2	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	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

μF	WV Code 代碼	4		6.3		10		16		25	
		0G		0J		1A		1C		1E	
		Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流
4.7	4R7					4 x 5.4	13	4 x 5.4	13	4 x 5.4	13
0.33	R33							4 x 5.4	13		
10	100					4 x 5.4	18	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	5 x 5.4 (4 x 5.4)	27	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)	6.3 x 5.4 (5 x 5.4)	41 (30)	6.3 x 5.4 (5 x 5.4)	48 (31)	6.3 x 5.4 (8 x 6.2)	48 (91)
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 (39)	6.3 x 5.4 (8 x 6.2)	60 (120)	6.3 x 7.7	91
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 5.4 (6.3 x 7.7)	85 (105)	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)	10 x 10.5 (8 x 10.5)	260 (210)	10 x 10.5 (8 x 10.5)	295 (230)	10 x 10.5	280
560	561									10X10.5	320
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	315	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						
6800	682	16 x 16.5 (12.5 x 16)	950 (650)								

μF	WV Code 代碼	35		50		63		100			
		1V		1H		1J		2A			
		Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流
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) (8 x 6.2)	32 (20) (30)		
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) (8 x 6.2)	35 (21)		
10	100	5 x 5.4 (4 x 5.4)	21 (14)	6.3 x 5.4	24	6.3 x 7.7 (6.3 x 5.4) (8 x 6.2)	39 (24) (25)	8 x 10.5 (6.3 x 7.7)	77 (35)		
22	220	6.3 x 5.4	38	6.3 x 7.7 (6.3 x 5.4) (8 x 6.2)	51 (42) (70)	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 (8 x 6.2)	42 (84)	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	4 x 5.4	13					12.5 x 13.5 (10 x 13.5)	300 (180)		

*Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C 120Hz •尺寸 $\varnothing D \times L$ (mm), 紹波電流(mA rms)於 105°C 120Hz



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

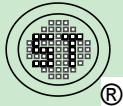
WV Code 代碼	μF	35		50		63		100	
		1V		1H		1J		2A	
		Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流	Case size 尺寸	Ripple current 紋波電流
100	101	8 × 10.5 (6.3 × 7.7)	120 (84)	10 × 10.5 (8 × 10.5)	170 (140)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	270 (210) (196)	16 × 16.5 (12.5 × 13.5)	450 (380)
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) (10 × 13.5)	560 (470) (235)	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 (10 × 13.5)	530 (395)	16 × 16.5	750				
1000	102	16 × 16.5 (12.5 × 16)	750 (600)						

• Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C 120Hz

• 尺寸 $\varnothing D \times L$ (mm), 紋波電流(mA rms)於 105°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	$\varnothing 4 \sim \varnothing 10$	0.1 ~ 68 μF	0.70	1.00	1.17	1.36
		100 ~ 3300 μF	0.85	1.00	1.08	1.20
	$\varnothing 12.5 \sim \varnothing 16$	~ 68 μF	0.75	1.00	1.35	1.57
		100 ~ 680 μF	0.80	1.00	1.23	1.34
		1000 ~ 6800 μF	0.85	1.00	1.10	1.13



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[TYEH1H475E55MTR](#) [6.3SEV22M4X5.5](#) [6.3SEV47M4X5.5](#) [EEEFK1H151GP](#) [EEEFK1A681GP](#) [EEE0GA471XP](#) [EEEFK1V151GP](#)
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