

- High ripple current.
- 高紋波電流

■ SPECIFICATIONS 規格表

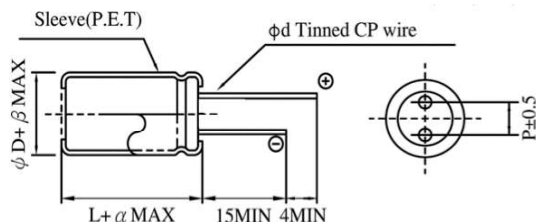
Item	Performance Characteristics 特性																																	
Operating Temperature Range 工作溫度範圍	-40 ~ +105°C																																	
Voltage Range 額定電壓範圍	200 ~ 500V																																	
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz,20°C																																	
Leakage Current 漏電流	After 2 minutes application of rated voltage, leakage current is lower than 0.06CV+10(μA). I = 0.06CV+10 (μA) 以下 (2分鐘) I = Leakage Current (漏電流) C = Capacitance (靜電容量) V = Rated Voltage (額定電壓)																																	
Tangent of loss angle 損失角正切值	<table><tr><td>Rated voltage (V) 額定電壓</td><td>200</td><td>220</td><td>250</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td>Tanδ (MAX)</td><td>0.12</td><td>0.12</td><td>0.12</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.20</td></tr></table>								Rated voltage (V) 額定電壓	200	220	250	400	420	450	500	Tanδ (MAX)	0.12	0.12	0.12	0.15	0.20	0.20	0.20										
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	Tanδ (MAX)	0.12	0.12	0.12	0.15	0.20	0.20	0.20																										
(Frequency : 120Hz , Temperature : 20°C)																																		
Stability at Low Temperature 溫度特性	<table><tr><td colspan="2">Rated voltage (V)</td><td>200</td><td>220</td><td>250</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td rowspan="2">Impedance Ratio 阻抗比</td><td>Z-25°C/Z+20°C</td><td>3</td><td>3</td><td>3</td><td>8</td><td>8</td><td>8</td><td>8</td></tr><tr><td>Z-40°C/Z+20°C</td><td>6</td><td>6</td><td>6</td><td>10</td><td>10</td><td>10</td><td>10</td></tr></table>								Rated voltage (V)		200	220	250	400	420	450	500	Impedance Ratio 阻抗比	Z-25°C/Z+20°C	3	3	3	8	8	8	8	Z-40°C/Z+20°C	6	6	6	10	10	10	10
	Rated voltage (V)		200	220	250	400	420	450	500																									
	Impedance Ratio 阻抗比	Z-25°C/Z+20°C	3	3	3	8	8	8	8																									
		Z-40°C/Z+20°C	6	6	6	10	10	10	10																									
(Frequency:120Hz)																																		
Endurance 耐久性	After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements. 在105°C環境中，不超過額定電壓的範圍內疊加額定紋波電流，連續加載5000小時後，滿足下列各項要求																																	
	Capacitance Change 靜電容量變化率		Within ±20% of initial Value 初期值的±20%以內																															
	Tangent of loss angle (Tanδ) 損失角正切值		Not exceeding 200% of initial specified value 規格值200%以下																															
	Leakage current 漏電流		Not exceeding of initial specified value 規格值以下																															
Shelf Life 高溫無負荷	After storing the capacitors under no load at 105 °C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20 °C, they shall meet the specified values for the endurance characteristics listed above. 在105°C下無負荷放置1000小時後，在20 °C下依據JIS C 5101-4 4.1項進行電壓處理後，將滿足以上耐久性的特性值																																	

■ Frequency Coefficient of Allowable Ripple Current 容許紋波電流的頻率係數

Frequency 頻率	50Hz	120Hz	300Hz	1KHz	10KHz ~
Coefficient 係數	0.80	1.00	1.25	1.40	1.60

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■ RADIAL LEAD TYPE 尺寸圖



ΦD	8	10	12.5	16	18
P	3.5	5.0	5.0	7.5	7.5
Φd	0.6	0.6	※0.6	0.8	0.8
β	0.5	0.5	0.5	0.5	0.5
α	L < 20 : 1.5				
	L ≥ 20 : 2.0				

※ In case L ≥ 35 for the ϕ12.5 dia. unit, lead dia. ϕd = 0.8mm

■ DIMENSIONS 尺寸

Rated Ripple Current(mA r.m.s. at 105°C,120Hz)

w.V S.V	Item	200V 250V		220V 270V		250V 300V		400V 450V	
		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
6.8		8 x 11.5	56					8 x 15	65
10		8 x 11.5	65					10 x 12.5	67
22		10 x 12.5	100					10 x 16	90
27								10 x 30.5	210
33		10 x 16	180					12.5 x 25	240
39								12.5 x 30.5	290
47		10 x 20	220					12.5 x 30.5	320
56						10 x 30.5	280	16 x 25	380
68		10 x 30.5	350			12.5 x 25	310	16 x 30.5	420
82		12.5 x 25	410	10 x 30.5	350	12.5 x 30.5	360	16 x 30.5	460
100		12.5 x 30.5	480	12.5 x 25	410	12.5 x 30.5	410	16 x 30.5	500
120				12.5 x 30.5	490			16 x 35.5	580
150		16 x 30.5	640	16 x 25	470	16 x 30.5	640	18 x 30.5	580
180		16 x 30.5	720	16 x 30.5	725	16 x 30.5	740	18 x 30.5	580
220		16 x 30.5	760	16 x 30.5	725	16 x 30.5	740	18 x 45	800
270		16 x 35.5	880	16 x 35.5	780	18 x 35.5	850	18 x 45	870
330		18 x 35.5	1010	16 x 40	930	18 x 40	970		
390		18 x 40	1130	18 x 40	1070				
470		18 x 45	1280	18 x 45	1200				
560		18 x 50	1410						

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■ DIMENSIONS 尺寸

Rated Ripple Current(mA r.m.s. at 105°C,120Hz)

W.V S.V	Item	420V 470V		450V 500V		500V 550V	
		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
10						12.5 x 20	140
15				10 x 30.5	160	12.5 x 25	170
18		10 x 30.5	170	12.5 x 25	190		
22		12.5 x 25	200	12.5 x 30.5	230	12.5 x 30.5	220
27		12.5 x 30.5	240	12.5 x 30.5	270		
33		12.5 x 30.5	270	16 x 25	290	16 x 25	290
39		16 x 25	310	16 x 30.5	330	16 x 30.5	320
47		16 x 25	330	16 x 30.5	400	18 x 25	380
56		18 x 20	400	16 x 35.5	460		
68		16 x 30.5	430	18 x 30.5	490	18 x 35.5	510
		18 x 25	470				
82		18 x 30.5	570	18 x 35.5	560	18 x 40	610
100		18 x 35.5	670	18 x 40	670	18 x 45	685
120		18 x 35.5	700	18 x 40	700	18 x 50	730
150		18 x 35.5	820	18 x 45	750		
180		18 x 45	910	18 x 50	850		