

- High ripple current, Long Life.
- 高紋波電流、長壽命

■ SPECIFICATIONS 規格表

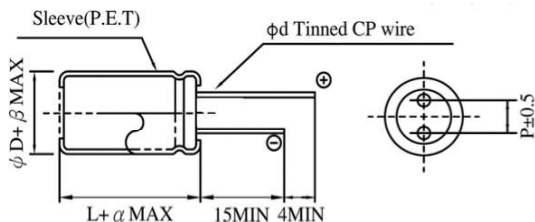
Item	Performance Characteristics 特性																													
Operating Temperature Range 工作溫度範圍	-40 ~ +105°C																													
Voltage Range 額定電壓範圍	200 ~ 500V																													
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz,20°C																													
Leakage Current 漏電流	After 1 minute application of rated voltage, leakage current is lower than 0.04CV+100(μA). I = 0.04CV+100 (μA)以下(1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>250</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td>Tanδ (MAX)</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.24</td><td>0.24</td></tr></table> (Frequency : 120Hz , Temperature : 20°C)							Rated voltage (V) 額定電壓	200	250	400	420	450	500	Tanδ (MAX)	0.15	0.15	0.20	0.20	0.24	0.24									
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Stability at Low Temperature 溫度特性	<table><tr><td colspan="2">Rated voltage (V)</td><td>200</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>8</td><td>8</td><td>8</td><td>8</td></tr><tr><td>ZT/Z 20 (MAX)</td><td>6</td><td>6</td><td>10</td><td>10</td><td>10</td><td>10</td></tr></table> (Frequency:120Hz)							Rated voltage (V)		200	250	400	420	450	500	Impedance Ratio 阻抗比	Z-25°C/Z+20°C	3	3	8	8	8	8	ZT/Z 20 (MAX)	6	6	10	10	10	10
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Endurance 耐久性	After applying rated voltage with rated ripple current for 8000 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8000小時後，滿足下列各項要求 <table><tr><td>Capacitance Change 靜電容量變化率</td><td>Within ±20% of initial Value 初期值的±20%以內</td></tr><tr><td>Tangent of loss angle (Tanδ) 損失角正切值</td><td>Not exceeding 200% of initial specified value 規格值200%以下</td></tr><tr><td>Leakage current 漏電流</td><td>Not exceeding of initial specified value 規格值以下</td></tr></table>							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																	
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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	1KHz	10KHz	100KHz ~
Coefficient 係數	0.80	1.00	1.50	1.70	1.80

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■ RADIAL LEAD TYPE 尺寸圖



ΦD	12.5	14.5	16	18
P	5.0	7.5	7.5	7.5
Φd	※0.6	0.8	0.8	0.8
β	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		400V	
		250V		300V		450V	
Cap(μF)		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
6.8							
10							
22						12.5 x 20	285
27						12.5 x 20	290
33						12.5 x 25	310
39						14.5 x 20	330
47	12.5 x 15	385	12.5 x 20	390		12.5 x 30.5	390
56	12.5 x 20	410	12.5 x 20	415		14.5 x 25	390
68	12.5 x 20	505	12.5 x 25	520		14.5 x 30.5	545
			14.5 x 20	515		16 x 25	525
82	12.5 x 25	530	12.5 x 30.5	570		16 x 30.5	640
			14.5 x 25	555		18 x 25	610
100	12.5 x 25	550	12.5 x 35.5	630		14.5 x 40	715
	14.5 x 20	540	16 x 20	570		16 x 30.5	655
	12.5 x 30.5	650	14.5 x 30.5	705		16 x 35.5	735
120	14.5 x 25	635	16 x 25	675		18 x 30.5	710
	16 x 20	620	18 x 20	650			
	12.5 x 35.5	770					
	14.5 x 30.5	770	16 x 30.5	800		16 x 40	780
	16 x 25	755					
	18 x 20	730	18 x 25	775		18 x 35.5	780
180	12.5 x 40	870	16 x 35.5	900		18 x 40	820
	16 x 25	830	18 x 30.5	895			
220	16 x 30.5	985	16 x 35.5	1010		18 x 50	1000
	18 x 25	950	18 x 30.5	1000			
270	16 x 35.5	1120	16 x 40	1160			
	18 x 30.5	1130	18 x 35.5	1160			
	16 x 40	1250					
330	18 x 35.5	1250	18 x 40	1200			
390	18 x 40	1425	18 x 45	1285			
470	18 x 45	1505					
560	18 x 50	1560					

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■ DIMENSIONS 尺寸

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

W.V S.V	420V 470V		450V 500V		500V 550V	
Item Cap(μF)	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
10					12.5 x 20	150
15					12.5 x 25	190
18	12.5 x 20	175	12.5 x 25	210	14.5 x 25	220
			14.5 x 20	200	16 x 20	220
22	12.5 x 25	255	12.5 x 30.5	265	12.5 x 30.5	255
			14.5 x 25	240		
33	12.5 x 30.5	290	14.5 x 30.5	320	16 x 25	300
	14.5 x 25	280	16 x 25	300	18 x 20	285
47	16 x 30.5	375	16 x 30.5	410	18 x 25	400
56	16 x 30.5	440	16 x 35.5	475	18 x 30.5	460
			18 x 30.5	470		
68	16 x 35.5	525	18 x 30.5	510	18 x 35.5	520
82	18 x 30.5	600	18 x 35.5	585	18 x 40	620
100	18 x 35.5	625	18 x 40	685	18 x 45	700
120	18 x 40	690	18 x 40	710	18 x 50	735
150	18 x 40	705	18 x 45	730		