

- 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℃																						
Voltage Range 額定電壓範圍	160 ~ 450V																						
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz,20℃																						
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>160</td><td>200</td><td>250</td><td>400</td><td>420</td><td>450</td></tr><tr><td>Tanδ (MAX)</td><td>0.24</td><td>0.24</td><td>0.24</td><td>0.24</td><td>0.24</td><td>0.24</td></tr></table> (Frequency : 120Hz , Temperature : 20℃)							Rated voltage (V) 額定電壓	160	200	250	400	420	450	Tanδ (MAX)	0.24	0.24	0.24	0.24	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>160</td><td>200</td><td>250</td><td>400</td><td>420</td><td>450</td></tr><tr><td>Impedance Ratio 阻抗比 ZT/Z 20 (MAX)</td><td>Z-25℃/Z+20℃</td><td>6</td><td>6</td><td>6</td><td>8</td><td>10</td><td>10</td></tr></table> (Frequency:120Hz)							Rated voltage (V)		160	200	250	400	420	450	Impedance Ratio 阻抗比 ZT/Z 20 (MAX)	Z-25℃/Z+20℃	6	6	6	8	10	10
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Endurance 耐久性	After applying rated voltage with rated ripple current for 15000 hours at 105℃, the capacitors shall meet the following requirements. 在105℃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15000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 ±30% of initial Value 初期值的±30%以內</td></tr><tr><td>Tangent of loss angle (Tanδ) 損失角正切值</td><td>Not exceeding 300% of initial specified value 規格值300%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 ±30% of initial Value 初期值的±30%以內	Tangent of loss angle (Tanδ) 損失角正切值	Not exceeding 300% of initial specified value 規格值300%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℃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																						

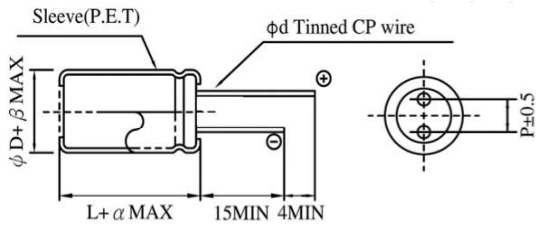
■ Frequency Coefficient of Allowable Ripple Current 容許紋波電流的頻率係數

Frequency 頻率	50Hz	120Hz	1KHz	10KHz	100KHz ~
Coefficient 係數	0.80	1.00	1.90	2.35	2.50

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■ RADIAL LEAD TYPE 尺寸圖

BZ



ΦD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Φd	0.6	※0.6	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)

Item Cap(μF)	W.V S.V	160V 200V		200V 250V		250V 300V	
		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
10		10 x 16	190	10 x 16	205	10 x 20	215
22		10 x 20	235	10 x 20	255	10 x 20	265
33		10 x 20	320	10 x 20	340	10 x 25	350
47		10 x 25	410	12.5 x 20	520	12.5 x 25	535
68		12.5 x 20	620	12.5 x 25	685	16 x 20	680
82		12.5 x 25	660	12.5 x 25	695	16 x 25	720
100		12.5 x 30.5	685	12.5 x 35.5	740	16 x 30.5	765
		16 x 20	685	16 x 20	740		
150		16 x 25	960	16 x 25	975	18 x 30.5	1020
220		16 x 30.5	1055	18 x 30.5	1120	18 x 35.5	1270
330		18 x 30.5	1535	18 x 35.5	1615	18 x 45	1725
470		18 x 40	1960	18 x 45	2065	18 x 50	2130
560		18 x 45	2170	18 x 50	2220		

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■ DIMENSIONS 尺寸

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

W.V	400V		420V		450V	
S.V	450V		470V		500V	
Cap(μF) Item	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
6.8	10 x 16	155	10 x 16	155	10 x 20	150
10	10 x 20	175	10 x 20	195	12.5 x 20	215
15	12.5 x 20	260	12.5 x 20	270	12.5 x 25	275
22	12.5 x 25	380	12.5 x 25	390	16 x 20	390
33	16 x 20	500	16 x 20	510	16 x 25	515
47	18 x 20	620	18 x 25	630	18 x 30.5	635
68	18 x 25	760	18 x 30.5	770	18 x 35.5	780
82	18 x 30.5	810	18 x 35.5	815	18 x 40	820
100	18 x 35.5	965	18 x 40	975	18 x 45	980
120	18 x 40	1035	18 x 45	1050	18 x 50	1060
150	18 x 45	1260				