

- High ripple current.
- 高紋波電流
- Load life of 3000 hours at 105°C.
- 105°C 壽命：3000小時

### ■ SPECIFICATIONS 規格表

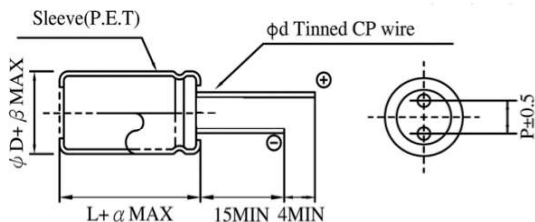
Item	Performance Characteristics 特性																										
Operating Temperature Range 工作溫度範圍	-40 ~ +105°C																										
Voltage Range 額定電壓範圍	200 ~ 500V																										
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz, 20°C																										
Leakage Current 漏電流	After 1 minute 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 border="1"> <thead> <tr> <th>Rated voltage (V) 額定電壓</th> <th>200</th> <th>220</th> <th>250</th> <th>400</th> <th>420</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Tanδ (MAX)</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table> <p>(Frequency : 120Hz , Temperature : 20°C)</p>	Rated voltage (V) 額定電壓	200	220	250	400	420	450	500	Tanδ (MAX)	0.15	0.15	0.15	0.15	0.15	0.15	0.20										
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	ZT/Z 20 (MAX)	6	6	6	10	10	10	10																			
Endurance 耐久性	<p>After applying rated voltage with rated ripple current for 3000 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 3000 小時後，滿足下列各項要求</p> <table border="1"> <tbody> <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> </tbody> </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	<p>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</p>																										

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

Frequency 頻率	50Hz-60Hz	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)

Cap(μF)	Item	200V		220V		250V		400V	
		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
2.2								8 x 11.5	34
3.3						8 x 11.5	40	8 x 11.5	40
4.7								8 x 11.5	46
6.8								8 x 15	62
10		8 x 11.5	85	8 x 11.5	90	8 x 11.5	95	10 x 12.5	78
15		8 x 15	100	10 x 12.5	115				
22		10 x 20	170	10 x 20	195			12.5 x 20	185
33		10 x 25	230	10 x 25	240	12.5 x 20	255	12.5 x 20	200
47		10 x 30.5	275	12.5 x 20	290	10 x 30.5	295	12.5 x 25	270
		12.5 x 20	275					16 x 20	330
56		12.5 x 25	295	12.5 x 25	310	12.5 x 25	330	16 x 25	400
								18 x 20	400
68		12.5 x 25	360	16 x 20	370	12.5 x 30.5	360	16 x 25	430
								18 x 20	450
82		12.5 x 30.5	410	16 x 20	420	12.5 x 30.5	440	16 x 30.5	540
		16 x 20	410			16 x 20	430	18 x 25	525
100		16 x 25	470	16 x 25	490	16 x 25	505	16 x 30.5	590
								18 x 25	550
120		16 x 30.5	550	16 x 30.5	510	16 x 30.5	585	16 x 35.5	610
				18 x 25	480	18 x 25	585	18 x 30.5	650
150		16 x 30.5	610	16 x 30.5	640	16 x 30.5	680	16 x 40	750
		18 x 25	610	18 x 25	640	18 x 25	680	18 x 35.5	840
180		16 x 35.5	695	16 x 35.5	740	16 x 35.5	790	18 x 40	920
		18 x 30.5	695	18 x 30.5	740	18 x 30.5	790		
220		18 x 30.5	735	18 x 35.5	855	18 x 35.5	910	18 x 45	950
270				18 x 35.5	925	18 x 40	1045	18 x 50	980
330		18 x 35.5	1040	18 x 35.5	1100	18 x 45	1180		
390		18 x 40	1100	18 x 40	1180	18 x 50	1250		
470		18 x 40	1210	18 x 45	1250				
560		18 x 45	1280						

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

W.V S.V	420V 470V		450V 500V		500V 550V		
Cap(μF)	Item	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
1				8 x 15	22		
2.2				10 x 12.5	26		
3.3				10 x 12.5	38		
4.7		10 x 16	60	10 x 16	64		
6.8		10 x 16	70	10 x 16	70		
10		10 x 16	100	10 x 16	80	12.5 x 20	125
15		10 x 20	125	10 x 20	150	12.5 x 20	132
18		12.5 x 20	180	12.5 x 20	170	12.5 x 25	165
22		12.5 x 20	190	12.5 x 20	190	12.5 x 25	193
27				12.5 x 25	235		
33		16 x 20	250	16 x 25	270	16 x 20	290
47		16 x 25	340	18 x 20	320	18 x 20	320
		18 x 20	340				
56		16 x 25	365	16 x 30.5	425	16 x 30.5	390
68		16 x 25	420	18 x 25	460	18 x 35.5	500
82		18 x 25	530	18 x 30.5	530	18 x 40	585
100		16 x 30.5	590	18 x 35.5	620	18 x 45	660
120		18 x 30.5	660	18 x 35.5	680	18 x 50	710
150		18 x 35.5	780	18 x 40	770		
180		18 x 40	825	18 x 45	870		