

- Miniaturized, Standard.
- 小型化尺寸、標準品

■ SPECIFICATIONS 規格表

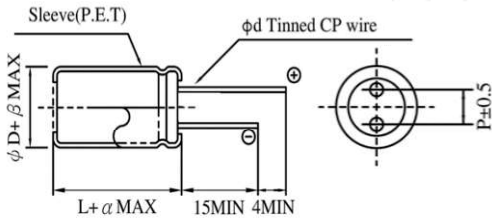
Item	Performance Characteristics 特性									
Operating Temperature Range 工作溫度範圍	-40 ~ +105°C									
Voltage Range 額定電壓範圍	6.3 ~ 100V									
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz,20°C									
Leakage Current 漏電流	After 1 minute application of rated voltage, leakage current is lower than 0.03CV or 4(μA), whichever is greater. I = 0.03CV或4(μA)以下(1分鐘) After 2 minutes application of rated voltage, leakage current is lower than 0.01CV or 3(μA), whichever is greater. I = 0.01CV或3(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	For capacitance of more than 1000 μF, add 0.02 for every increase of 1000 μF 對於超過1000 μF產品，每增加1000 μF，其值增加0.02									
	Rated voltage (V) 額定電壓	6.3	10	16	25	35	50	63	100	
	Tanδ (MAX)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
(Frequency : 120Hz , Temperature : 20°C)										
Stability at Low Temperature 溫度特性	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	Impedance Ratio 阻抗比	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2
		ZT/Z 20 (MAX)	Z-40°C/Z+20°C	10	8	6	4	3	3	3
(Frequency:120Hz)										
Endurance 耐久性	After applying rated voltage with rated ripple current for 2000 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2000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

V	Frequency	50Hz	120Hz	300Hz	1KHz	10KHz ~
	Cap(μF)					
6.3~100	0.1~68	0.75	1.00	1.35	1.57	2.00
	100~470	0.80	1.00	1.23	1.34	1.50
	1000~22000	0.85	1.00	1.10	1.13	1.15

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■ RADIAL LEAD TYPE 尺寸圖



ΦD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.6	0.6	※0.6	0.8	0.8
β	0.5	0.5	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	6.3V		10V		16V		25V	
		Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
4.7								5 x 11	25
10						5 x 11	35	5 x 11	36
22		5 x 11	45	5 x 11	45	5 x 11	54	5 x 11	58
33		5 x 11	55	5 x 11	58	5 x 11	65	5 x 11	68
47		5 x 11	65	5 x 11	68	5 x 11	79	5 x 11	83
100		5 x 11	95	5 x 11	105	5 x 11	115	6.3 x 11	140
220		5 x 11	145	6.3 x 11	175	6.3 x 11	190	8 x 11.5	240
330		6.3 x 11	195	6.3 x 11	210	8 x 11.5	265	8 x 11.5	275
470		6.3 x 11	230	6.3 x 11	250	8 x 11.5	315	10 x 12.5	380
1000		8 x 11.5	390	10 x 12.5	460	10 x 16	560	10 x 20	680
2200		10 x 20	710	10 x 20	760	12.5 x 25	920	12.5 x 25	1090
3300		10 x 20	840	12.5 x 20	1000	12.5 x 25	1170	16 x 25	1400
4700		12.5 x 20	1090	12.5 x 25	1260	16 x 25	1480	16 x 30.5	1710
6800		12.5 x 25	1350	16 x 25	1570	16 x 30.5	1690	16 x 35.5	1850
10000		16 x 25	1650	16 x 30.5	1820	16 x 35.5	1930	18 x 40	2000
15000		16 x 30.5	1820	18 x 35.5	2180	18 x 40	2100		
22000		18 x 35.5	2280	18 x 40	2420				

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■ DIMENSIONS 尺寸

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

W.V	35V		50V		63V		100V	
S.V	44V		63V		79V		125V	
Item Cap(μF)	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple	Size D x L(mm)	Ripple
0.1			5 x 11	1.3			5 x 11	1.5
0.22			5 x 11	2.9			5 x 11	3.4
0.33			5 x 11	4.3			5 x 11	5.0
0.47			5 x 11	7			5 x 11	7.1
1			5 x 11	13			5 x 11	15
2.2			5 x 11	20			5 x 11	21
3.3			5 x 11	25			5 x 11	29
4.7	5 x 11	28	5 x 11	30	5 x 11	32	5 x 11	32
10	5 x 11	41	5 x 11	46	5 x 11	46	6.3 x 11	54
22	5 x 11	61	5 x 11	68	5 x 11	71	6.3 x 11	93
33	5 x 11	75	5 x 11	90	6.3 x 11	100	8 x 11.5	130
47	5 x 11	93	5 x 11	115	6.3 x 11	120	10 x 12.5	165
68	6.3 x 11	110	6.3 x 11	150	8 x 11.5	155	10 x 12.5	190
100	6.3 x 11	150	8 x 11.5	190	10 x 12.5	215	10 x 20	265
220	8 x 11.5	250	10 x 12.5	300	10 x 16	335	12.5 x 25	440
330	10 x 12.5	350	10 x 16	410	10 x 20	510	12.5 x 25	540
470	10 x 16	460	12.5 x 20	530	12.5 x 20	640	16 x 25	715
1000	12.5 x 20	810	12.5 x 25	950	16 x 25	930	18 x 35.5	960
2200	16 x 25	1260	16 x 35.5	1470	18 x 35.5	1650		
3300	16 x 30.5	1500	18 x 35.5	1770				
4700	16 x 35.5	1780						