- Standard.
- 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): 0.22 / 0.19 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.08 (Frequency：120Hz，Temperature：20℃)
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℃/Z+20℃: 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2 ZT/Z 20 (MAX) Z–40℃/Z+20℃: 8 / 6 / 6 / 3 / 3 / 3 / 3 / 3 (Frequency:120Hz)
Endurance 耐久性	After applying rated voltage with rated ripple current for 2000 hours at 105℃, 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 / Cap(μF)	50Hz	120Hz	300Hz	1KHz	10KHz ~
6.3~100	0.47~47	0.75	1.00	1.35	1.57	2.00
	100~470	0.80	1.00	1.23	1.34	1.50
	1000~15000	0.85	1.00	1.10	1.13	1.15

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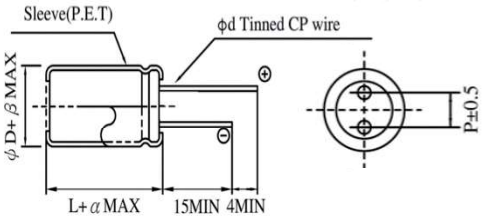
■ RADIAL LEAD TYPE 尺寸圖



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℃,120Hz)

W.V	6.3V		10V		16V		25V	
S.V	8V		13V		20V		32V	
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
10					5 x 11	35	5 x 11	39
22	5 x 11	34	5 x 11	45	5 x 11	55	5 x 11	60
33	5 x 11	50	5 x 11	60	5 x 11	70	5 x 11	75
47	5 x 11	65	5 x 11	75	5 x 11	85	5 x 11	90
100	5 x 11	100	5 x 11	110	6.3 x 11	135	6.3 x 11	145
220	6.3 x 11	165	6.3 x 11	180	8 x 11.5	235	8 x 11.5	250
330	6.3 x 11	200	8 x 11.5	225	8 x 11.5	285	10 x 12.5	355
470	8 x 11.5	280	8 x 11.5	305	10 x 12.5	395	10 x 16	470
1000	10 x 12.5	470	10 x 16	570	10 x 20	700	12.5 x 20	855
2200	12.5 x 20	930	12.5 x 20	1010	12.5 x 25	1150	16 x 25	1230
3300	12.5 x 20	1100	12.5 x 25	1220	16 x 25	1350	16 x 30.5	1450
4700	16 x 25	1320	16 x 25	1410	16 x 30.5	1560	18 x 35.5	1660
10000	16 x 30.5	1830	18 x 35.5	1980	18 x 40	2170		
15000	18 x 35.5	2280	18 x 40	2470				

■ DIMENSIONS 尺寸

Rated Ripple Current(mA r.m.s. at 105℃,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
0.47			5 x 11	7			5 x 11	10
1			5 x 11	12			5 x 11	15
2.2			5 x 11	18			5 x 11	22
3.3			5 x 11	25			5 x 11	29
4.7	5 x 11	27	5 x 11	30	5 x 11	34	5 x 11	37
10	5 x 11	44	5 x 11	50	5 x 11	55	6.3 x 11	65
22	5 x 11	65	5 x 11	75	6.3 x 11	90	8 x 11.5	115
33	5 x 11	85	6.3 x 11	105	6.3 x 11	110	10 x 12.5	160
47	6.3 x 11	115	6.3 x 11	125	8 x 11.5	155	10 x 16	210
100	8 x 11.5	190	8 x 11.5	210	10 x 12.5	260	12.5 x 20	385
220	10 x 12.5	325	10 x 16	400	10 x 20	465	16 x 25	590
330	10 x 16	440	10 x 20	535	12.5 x 20	650	16 x 25	720
470	10 x 20	580	12.5 x 20	730	12.5 x 25	800	16 x 30.5	875
1000	12.5 x 25	995	16 x 25	1110	16 x 30.5	1200	18 x 40	1320
2200	16 x 30.5	1450	18 x 35.5	1530	18 x 40	1840		
3300	18 x 35.5	1660						
4700	18 x 40	2030						