

- Miniaturized Low Impedance.
- 小型化尺寸、低阻抗

■ SPECIFICATIONS 規格表

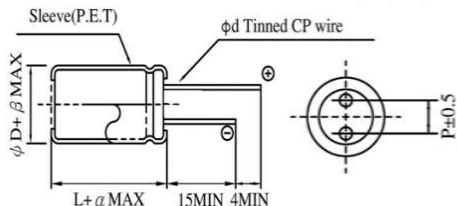
Item	Performance Characteristics 特性									
Operating Temperature Range 工作溫度範圍	-40 ~ +105°C									
Voltage Range 額定電壓範圍	6.3 ~ 100V									
Capacitance Tolerance 靜電容量容許差	±20% at 120Hz,20°C									
Leakage Current 漏電流	After 2 minutes application of rated voltage, leakage current is lower than 0.01CV 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°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	2	2	2	2	2	2	2	2
	ZT/Z 20 (MAX)	Z-40°C/Z+20°C	3	3	3	3	3	3	3	3
(Frequency:120Hz)										
Endurance 耐久性	After applying rated voltage with rated ripple current for specified time 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，連續加載表內時間後，符合下列要求									
	Case size 鋁殼尺寸	Life time 時間(hrs)	Capacitance Change 靜電容量變化率		Within ±25% of initial Value 初期值的±25%以內					
	φD≤6.3	2000	Tangent of loss angle (Tanδ) 損失角正切值		Not exceeding 200% of initial specified value 規格值200%以下					
	φD=8	3000								
	φD=10	4000	Leakage current 漏電流		Not exceeding of initial specified value 規格值以下					
	φD≥12.5	5000								
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	1KHz	10KHz	100KHz ~
	鋁殼尺寸 Cap(μF)					
6.3~100	6.8~33	0.45	0.55	0.75	0.90	1.00
	39~330	0.60	0.70	0.85	0.95	1.00
	390~1000	0.65	0.75	0.90	0.98	1.00
	1200~6800	0.75	0.80	0.95	1.00	1.00

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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,100KHz)

W.V	6.3V				10V			
S.V	8V				13V			
Item Cap(μF)	Size D x L(mm)	Ripple	Impedance(ΩMAX)		Size D x L(mm)	Ripple	Impedance(ΩMAX)	
			20℃/100KHz	-10℃/100KHz			20℃/100KHz	-10℃/100KHz
100	5 x 11	250	0.30	1.00	5 x 11	250	0.30	1.00
150	5 x 11	250	0.30	1.00				
220					6.3 x 11	405	0.13	0.41
330	6.3 x 11	405	0.13	0.41				
470					8 x 11.5	760	0.072	0.22
560	8 x 11.5	760	0.072	0.22				
680					8 x 15	995	0.056	0.17
					10 x 12.5	1030	0.053	0.16
820	8 x 15	995	0.056	0.17				
1000	10 x 12.5	1030	0.053	0.16	8 x 20	1250	0.041	0.13
					10 x 16	1430	0.038	0.12
1200	8 x 20	1250	0.041	0.13	10 x 20	1820	0.023	0.069
	10 x 16	1430	0.038	0.12				
1500	10 x 20	1820	0.023	0.069				
2200	10 x 25	2150	0.022	0.066	12.5 x 20	2360	0.021	0.053
3300	12.5 x 20	2360	0.021	0.053	12.5 x 25	2770	0.018	0.045
3900	12.5 x 25	2770	0.018	0.045	12.5 x 30.5	3290	0.016	0.041
					16 x 20	3140	0.018	0.045
4700	12.5 x 30.5	3290	0.016	0.041	12.5 x 30.5	3290	0.016	0.041
5600	16 x 20	3140	0.018	0.045	16 x 25	3460	0.016	0.043
6800	16 x 25	3460	0.016	0.043				

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■ DIMENSIONS 尺寸

Rated Ripple Current(mA r.m.s. at 105°C,100KHz)

W.V	16V				25V			
S.V	20V				32V			
Item Cap(μF)	Size D x L(mm)	Ripple	Impedance(ΩMAX)		Size D x L(mm)	Ripple	Impedance(ΩMAX)	
			20°C/100KHz	-10°C/100KHz			20°C/100KHz	-10°C/100KHz
47					5 x 11	250	0.30	1.00
56	5 x 11	250	0.30	1.00	6.3 x 11	405	0.13	0.41
100	6.3 x 11	405	0.13	0.41	6.3 x 11	405	0.13	0.41
120	6.3 x 11	405	0.13	0.41				
220	6.3 x 11	405	0.13	0.41	8 x 11.5	760	0.072	0.22
330	8 x 11.5	760	0.072	0.22	10 x 12.5	1030	0.053	0.16
470	8 x 11.5	760	0.072	0.22	8 x 20	1250	0.041	0.13
	10 x 12.5	1030	0.053	0.16	10 x 16	1430	0.038	0.12
680	8 x 20	1250	0.041	0.13	10 x 20	1820	0.023	0.069
	10 x 16	1430	0.038	0.12	12.5 x 15	1700	0.022	0.066
1000	10 x 20	1820	0.023	0.069	12.5 x 20	2360	0.021	0.053
1500	12.5 x 20	2360	0.021	0.053	12.5 x 25	2770	0.018	0.045
1800	12.5 x 20	2360	0.021	0.053	12.5 x 30.5	3290	0.016	0.041
					16 x 20	3140	0.018	0.045
2200	12.5 x 25	2770	0.018	0.045	12.5 x 30.5	3290	0.016	0.041
2700	12.5 x 30.5	3290	0.016	0.041	16 x 25	3460	0.016	0.043
	16 x 20	3140	0.018	0.045	18 x 20	3280	0.017	0.044
3300	16 x 25	3460	0.016	0.043	18 x 25	3600	0.016	0.043
3900	16 x 25	3460	0.016	0.043	18 x 30.5	3820	0.015	0.041

■ DIMENSIONS 尺寸

Rated Ripple Current(mA r.m.s. at 105°C,100KHz)

W.V	35V				50V			
S.V	44V				63V			
Item Cap(μF)	Size D x L(mm)	Ripple	Impedance(ΩMAX)		Size D x L(mm)	Ripple	Impedance(ΩMAX)	
			20°C/100KHz	-10°C/100KHz			20°C/100KHz	-10°C/100KHz
10					5 x 11	120	1.40	3.50
22	5 x 11	250	0.30	1.00	5 x 11	238	0.34	1.18
33	5 x 11	250	0.30	1.00				
47	5 x 11	250	0.30	1.00				
56	6.3 x 11	405	0.13	0.41	6.3 x 11	385	0.14	0.50
100	6.3 x 11	405	0.13	0.41	8 x 11.5	724	0.074	0.22
150	8 x 11.5	760	0.072	0.22	10 x 12.5	979	0.061	0.18
180	8 x 15	995	0.056	0.19	8 x 20	1190	0.046	0.14
220	10 x 12.5	1030	0.053	0.16	10 x 16	1370	0.042	0.12
270	8 x 20	1250	0.041	0.13	10 x 20	1580	0.030	0.090
330	10 x 16	1430	0.038	0.12				
470	10 x 20	1820	0.023	0.069	10 x 25	1850	0.027	0.082
	12.5 x 15	1700	0.022	0.066	12.5 x 20	2050	0.027	0.068
560	10 x 25	2150	0.022	0.062	12.5 x 25	2410	0.023	0.059
680	12.5 x 20	2360	0.021	0.053	12.5 x 30.5	2860	0.021	0.052
820	12.5 x 25	2770	0.018	0.045	16 x 20	2730	0.023	0.059
1000	12.5 x 25	2770	0.018	0.045	16 x 25	3010	0.021	0.056
1200	12.5 x 30.5	3290	0.016	0.041	16 x 30.5	3185	0.019	0.052
	16 x 20	3140	0.018	0.045				
1500	16 x 25	3460	0.016	0.043	18 x 25	3150	0.020	0.053
1800	18 x 20	3280	0.017	0.044				
2200	18 x 25	3600	0.016	0.043				
3300	18 x 30.5	3810	0.015	0.041				

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Rated Ripple Current(mA r.m.s. at 105°C,100KHz)

W.V	63V				100V			
S.V	79V				125V			
Item Cap(μF)	Size D x L(mm)	Ripple	Impedance(ΩMAX)		Size D x L(mm)	Ripple	Impedance(ΩMAX)	
			20°C/100KHz	-10°C/100KHz			20°C/100KHz	-10°C/100KHz
6.8					5 x 11	125	1.40	5.60
10					5 x 11	125	1.40	5.60
15	5 x 11	165	0.88	3.50	6.3 x 11	265	0.57	2.30
22	5 x 11	180	0.88	3.50	8 x 11.5	355	0.35	1.20
33	6.3 x 11	265	0.35	1.40				
47	8 x 11.5	420	0.33	1.15	10 x 12.5	480	0.17	0.66
68					10 x 16	600	0.11	0.47
82	8 x 15	665	0.16	0.54	10 x 20	800	0.084	0.34
	10 x 12.5	690	0.11	0.44				
100	10 x 12.5	690	0.11	0.44	12.5 x 15	750	0.11	0.34
120	8 x 20	820	0.12	0.48	10 x 25	900	0.069	0.28
	10 x 16	950	0.076	0.31				
150					12.5 x 20	1100	0.062	0.18
180	10 x 20	1150	0.056	0.23				
	12.5 x 15	1150	0.072	0.29				
220	10 x 25	1350	0.046	0.19	12.5 x 25	1250	0.047	0.14
					16 x 20	1350	0.048	0.15
270	12.5 x 20	1500	0.041	0.13	12.5 x 30.5	1500	0.042	0.13
330	12.5 x 25	1900	0.031	0.093	12.5 x 35.5	1650	0.036	0.11
					16 x 25	1700	0.038	0.12
					18 x 20	1500	0.045	0.14
390	12.5 x 25	1900	0.031	0.093	12.5 x 40	1800	0.032	0.095
470	12.5 x 30.5	2300	0.028	0.084	16 x 30.5	1850	0.032	0.095
	16 x 20	2000	0.032	0.096	18 x 25	1750	0.036	0.11
560	12.5 x 30.5	2500	0.028	0.084	16 x 35.5	2000	0.029	0.086
					18 x 30.5	1900	0.030	0.090
680	12.5 x 40	2800	0.021	0.063	18 x 35.5	2200	0.027	0.081
	16 x 25	2600	0.025	0.075				
	18 x 20	2500	0.030	0.090				
820	16 x 30.5	2850	0.021	0.063	18 x 40	2700	0.026	0.077
	18 x 25	2800	0.024	0.072				
1000	16 x 35.5	2900	0.019	0.057	18 x 40	2700	0.026	0.077
1200	16 x 40	3400	0.018	0.054				
	18 x 30.5	3300	0.020	0.060				
1500	18 x 35.5	3400	0.018	0.054				
1800	18 x 40	3500	0.017	0.051				