

Features

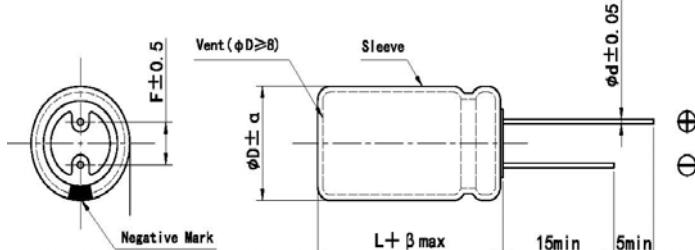
- 105°C, 5000 hours, ultra low impedance, high ripple current.
- Suit for use in switching power, LCD TV, LED and special Control power supply.



◆ Specifications

Items	Characteristics																							
Rated Voltage Range	6.3~63V.DC																							
Operating Temperature Range	−55°C~+105°C																							
Capacitance Tolerance	±20%(M) (25°C, 100 or 120Hz)																							
Leakage Current	I≤0.01 CV or 3(μA) Whichever is greater Where, I: max.leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V)(At 25°C after 2 minutes)																							
Dissipation Factor tanδ	(25°C, 100 or 120Hz) <table border="1"> <tr> <td>Rated voltage(V_{DC})</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr> <tr> <td>tanδ(Max.)</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.08</td><td>0.08</td></tr> </table> When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.								Rated voltage(V _{DC})	6.3	10	16	25	35	50	63	tanδ(Max.)	0.16	0.14	0.12	0.10	0.10	0.08	0.08
Rated voltage(V _{DC})	6.3	10	16	25	35	50	63																	
tanδ(Max.)	0.16	0.14	0.12	0.10	0.10	0.08	0.08																	
Low Temperature Characteristics (Max.Impedance Ratio)	Impedance ratio at 100Hz or 120Hz shall not exceed the values given in the below table. <table border="1"> <tr> <td>Rated voltage(V_{DC})</td><td>6.3~10</td><td>16~25</td><td>35~63</td></tr> <tr> <td>Z_{-55°C}/Z_{+20°C}</td><td>10</td><td>8</td><td>5</td></tr> </table> When nominal capacitance exceeds 1000μF, add 1 to the value above for each 1000μF increase.								Rated voltage(V _{DC})	6.3~10	16~25	35~63	Z _{-55°C} /Z _{+20°C}	10	8	5								
Rated voltage(V _{DC})	6.3~10	16~25	35~63																					
Z _{-55°C} /Z _{+20°C}	10	8	5																					
Shelf Life	After storage at 105°C for 1000 hours, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td><td>≤ ±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤ 200% of the initial specified value</td></tr> <tr> <td>Leakage Current</td><td>≤ 200% of the initial specified value</td></tr> </table>								Capacitance Change	≤ ±20% of the initial value	D.F. (tanδ)	≤ 200% of the initial specified value	Leakage Current	≤ 200% of the initial specified value										
Capacitance Change	≤ ±20% of the initial value																							
D.F. (tanδ)	≤ 200% of the initial specified value																							
Leakage Current	≤ 200% of the initial specified value																							
Load Life	After application of rated voltage with rated ripple current for the specified period of time at +105°C, the following specification shall be satisfied. <table border="1"> <tr> <td>Capacitance Change</td><td>≤ ±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤ 250% of the initial specified value</td></tr> <tr> <td>Leakage Current</td><td>≤ the initial specified value</td></tr> </table> <table border="1"> <tr> <td>Dia.(mm)</td><td>Life Time</td></tr> <tr> <td>5~6.3</td><td>3000 hours</td></tr> <tr> <td>8~10</td><td>4000 hours</td></tr> <tr> <td>Over 13</td><td>5000 hours</td></tr> </table>								Capacitance Change	≤ ±20% of the initial value	D.F. (tanδ)	≤ 250% of the initial specified value	Leakage Current	≤ the initial specified value	Dia.(mm)	Life Time	5~6.3	3000 hours	8~10	4000 hours	Over 13	5000 hours		
Capacitance Change	≤ ±20% of the initial value																							
D.F. (tanδ)	≤ 250% of the initial specified value																							
Leakage Current	≤ the initial specified value																							
Dia.(mm)	Life Time																							
5~6.3	3000 hours																							
8~10	4000 hours																							
Over 13	5000 hours																							
Others	Meet Q/RME 10—2003, GB/T 5993-2003																							

◆ Dimensions



mm

D	250	8.5	385	50	5.0	7.5
α			0.5	0.6	0.6	0.8
β	0.5 (0.6)		0.6	2 (0.8)		



◆ Size, Max Ripple Current And Impedance

Voltage (V)	Cap. (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	I _R (mAmps, 105°C, 100KHz)
6.3	100	5×11	0.16	0.72	241
	220	6.3×11	0.16	0.32	406
	330	6.3×11	0.16	0.24	498
	470	8×12	0.16	0.17	543
	680	8×12	0.16	0.14	597
	680	10×12	0.16	0.14	743
	1000	8×16	0.16	0.10	820
	1000	10×12	0.16	0.10	950
	1500	10×16	0.16	0.060	1247
	2200	10×20	0.18	0.038	1318
	3300	13×20	0.20	0.032	1871
	4700	13×25	0.22	0.032	2365
	6800	16×25	0.24	0.028	3081
	47	5×11	0.14	0.72	185
	100	5×11	0.14	0.72	288
10	220	6.3×11	0.14	0.32	428
	330	8×12	0.14	0.24	624
	470	8×12	0.14	0.17	573
	680	8×16	0.14	0.13	828
	680	10×12	0.14	0.13	831
	1000	10×16	0.14	0.10	1139
	1500	10×20	0.14	0.060	1450
	2200	13×20	0.16	0.038	1673
	2200	13×25	0.16	0.038	1845
	3300	13×25	0.18	0.032	2062
	4700	16×25	0.20	0.032	2658
	6800	13×40	0.22	0.028	3519
	6800	16×35	0.22	0.028	3707
	10	5×11	0.12	1.5	91
	22	5×11	0.12	0.72	135
16	47	5×11	0.12	0.72	213
	100	6.3×11	0.12	0.40	354
	220	8×12	0.12	0.25	652
	330	8×12	0.12	0.18	707
	470	10×12	0.12	0.10	739
	680	8×20	0.12	0.08	916
	680	10×16	0.12	0.08	1004
	1000	10×20	0.12	0.06	1342
	1500	13×20	0.12	0.05	1782
	2200	13×25	0.14	0.038	1944
	3300	16×25	0.16	0.032	2539
	4700	16×30	0.18	0.032	3281

Volta ge (V)	Cap. (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	I _R (mAmps, 105°C, 100KHz)
25	10	5×11	0.10	1.5	120
	22	5×11	0.10	0.72	179
	47	5×11	0.10	0.72	213
	100	6.3×11	0.12	0.38	387
	220	8×12	0.12	0.23	624
	330	10×12	0.12	0.12	952
	470	10×16	0.10	0.09	987
	470	10×20	0.10	0.09	994
	680	10×20	0.10	0.07	952
	1000	13×20	0.10	0.05	1681
	1500	13×20	0.10	0.038	1906
	2200	16×25	0.12	0.032	2318
	3300	16×30	0.14	0.032	3074
	10	5×11	0.10	1.5	108
	22	5×11	0.10	0.72	146
35	33	5×11	0.10	0.45	196
	47	6.3×11	0.10	0.32	297
	100	8×12	0.10	0.25	515
	220	10×12	0.10	0.12	869
	330	10×16	0.10	0.06	1203
	470	10×20	0.10	0.045	1089
	680	13×20	0.10	0.040	1518
	1000	13×25	0.10	0.032	1852
	1500	16×25	0.10	0.032	2550
	2200	16×30	0.12	0.032	2898
	3300	16×35	0.14	0.030	3292
	10	5×11	0.08	1.5	120
	22	5×11	0.08	0.72	179
50	33	6.3×11	0.08	0.45	249
	47	8×12	0.08	0.32	353
	100	10×12	0.08	0.25	586
	100	10×16	0.08	0.22	592
	220	10×16	0.08	0.12	982
	330	10×20	0.08	0.060	1326
	470	13×20	0.08	0.040	1834
	680	13×25	0.08	0.040	2432
	1000	16×25	0.08	0.030	3315
	1200	16×35	0.08	0.030	3767
	10	5×11	0.08	1.5	120
	22	6.3×11	0.08	0.72	203
63	33	6.3×11	0.08	0.40	249
	47	8×12	0.08	0.32	353

◆ Ripple Current Multiplier

Frequency Coefficient

Frequency (Hz)	50/60	100/120	1K	10K	100K
10~330μF	0.35	0.50	0.75	0.85	1.0
470~1500μF	0.45	0.65	0.85	0.90	1.0
2200~6800μF	0.53	0.75	0.90	0.95	1.0