

Features

- 105°C, 5000 hours, ultra low impedance, high ripple current.
- Suitable for using in switching power supplies, LCD TV, LED and special control power supply.

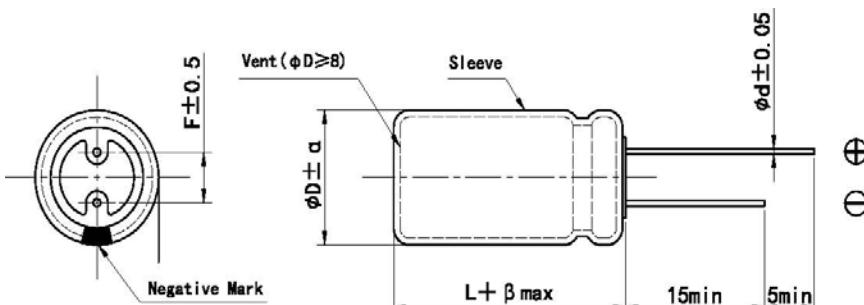


Specifications

Items	Characteristics																			
Rated Voltage Range	100~450V.DC																			
Operating Temperature Range	−40°C~+105°C																			
Capacitance Tolerance	$\pm 20\%$ (M) (25°C, 100 or 120Hz)																			
Leakage Current	$I \leq 0.02 CV + 10(\mu A)$ 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" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated voltage(V_{dc})</td> <td>100</td> <td>160</td> <td>200</td> <td>250~450</td> </tr> <tr> <td>tanδ(Max.)</td> <td>0.10</td> <td>0.12</td> <td>0.14</td> <td></td> </tr> </table>					Rated voltage(V_{dc})	100	160	200	250~450	tanδ(Max.)	0.10	0.12	0.14						
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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" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated voltage(V_{dc})</td> <td>100~160</td> <td>200~450</td> </tr> <tr> <td>$Z_{-40^\circ C}/Z_{+20^\circ C}$</td> <td>4</td> <td>7</td> </tr> </table>					Rated voltage(V_{dc})	100~160	200~450	$Z_{-40^\circ C}/Z_{+20^\circ C}$	4	7									
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Shelf Life	After storage at 105°C for 1000 hours, the capacitors shall meet the following requirements. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 20\%$ of the initial value</td> </tr> <tr> <td>D.F.(tanδ)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> </table>					Capacitance Change	$\leq \pm 20\%$ of the initial value	D.F.(tanδ)	$\leq 200\%$ of the initial specified value	Leakage Current	$\leq 200\%$ of the initial specified value									
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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" style="margin-left: auto; margin-right: auto;"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 20\%$ of the initial value</td> <td style="text-align: right;">Dia.(mm)</td> <td style="text-align: right;">Life Time</td> </tr> <tr> <td>D.F.(tanδ)</td> <td>$\leq 200\%$ of the initial specified value</td> <td style="text-align: right;">5~8</td> <td style="text-align: right;">3000 hours</td> </tr> <tr> <td>Leakage Current</td> <td>\leq the initial specified value</td> <td style="text-align: right;">10</td> <td style="text-align: right;">4000 hours</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">Over 13</td> <td style="text-align: right;">5000 hours</td> </tr> </table>				Capacitance Change	$\leq \pm 20\%$ of the initial value	Dia.(mm)	Life Time	D.F.(tanδ)	$\leq 200\%$ of the initial specified value	5~8	3000 hours	Leakage Current	\leq the initial specified value	10	4000 hours			Over 13	5000 hours
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		Over 13	5000 hours																	
Others	Meet Q/RME 14—2003, GB/T 5993-2003																			

◆ Dimensions

mm



D	5	6.3	8	10	13	16	18
d		0.5		0.6	0.6		0.8
F	2.0	2.5	3.5		5.0		7.5
α						0.5	
β	1.0					2.0	



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)	Voltage (V)	Cap. (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	I _R (mAmps, 105°C, 100KHz)
100	10	6.3×11	0.10	4.5	137	250	2.2	6.3×11	0.14	14.0	57
	22	8×12	0.10	3.5	242		3.3	8×12	0.14	9.0	94
	33	10×12	0.10	2.2	337		4.7	8×12	0.14	5.0	100
	47	10×16	0.10	1.9	454		6.8	8×16	0.14	3.5	115
	68	10×20	0.10	1.2	538		10	10×12	0.14	2.8	166
	100	10×20	0.10	0.7	653		10	10×16	0.14	2.8	187
	150	13×20	0.10	0.45	927		22	10×20	0.14	1.8	217
	220	13×25	0.10	0.22	1237		33	13×20	0.14	1.2	397
	330	16×25	0.10	0.12	1703		47	13×25	0.14	1.0	452
	470	16×30	0.10	0.10	2201		47	16×25	0.14	1.0	643
160	4.7	6.3×11	0.12	7.5	71		68	16×25	0.14	0.65	773
	6.8	6.3×11	0.12	5.0	85		100	16×30	0.14	0.40	927
	10	8×12	0.12	4.0	115		150	18×35	0.14	0.30	1298
	22	10×12	0.12	2.5	194		220	18×40	0.14	0.12	1827
	22	10×16	0.12	2.5	220	400	1	6.3×11	0.14	25	35
	33	10×20	0.12	2.0	342		2.2	8×12	0.14	20	68
	47	13×20	0.12	1.4	474		3.3	8×16	0.14	16	80
	68	13×25	0.12	1.0	581		4.7	10×12	0.14	12	80
	100	16×25	0.12	0.62	792		6.8	10×16	0.14	9.0	109
	150	16×25	0.12	0.40	971		10	10×20	0.14	7.0	146
	150	16×30	0.12	0.40	1051		22	13×20	0.14	3.0	300
	220	16×35	0.12	0.30	1472		33	13×30	0.14	2.0	475
	220	18×35	0.12	0.20	1572		33	16×25	0.14	2.0	492
	330	18×40	0.12	0.12	2043		47	16×30	0.14	1.3	635
200	3.3	6.3×11	0.12	11	59		68	16×35	0.14	0.9	758
	3.3	8×12	0.12	11	71		100	18×35	0.14	0.8	981
	4.7	6.3×11	0.12	6.2	77		100	18×40	0.14	0.6	1041
	4.7	8×12	0.12	6.2	84	450	1	6.3×11	0.14	25	35
	6.8	8×12	0.12	4.5	110		2.2	8×16	0.14	24	65
	10	10×12	0.12	3.0	166		3.3	8×16	0.14	16	87
	22	10×16	0.12	2.2	235		3.3	10×12	0.14	16	87
	22	10×20	0.12	2.2	306		4.7	10×16	0.14	10	108
	33	13×20	0.12	1.4	435		6.8	10×20	0.14	8.0	155
	47	13×20	0.12	1.1	474		10	13×20	0.14	4.0	218
	68	13×25	0.12	0.7	581		22	13×25	0.14	2.2	357
	100	16×25	0.12	0.45	856		22	16×25	0.14	2.2	440
	100	16×30	0.12	0.45	858		33	18×30	0.14	1.5	623
	150	16×35	0.12	0.34	1126		47	18×30	0.14	1.3	744
	220	18×35	0.12	0.18	1455		68	18×40	0.14	0.9	927

◆ Ripple Current Multiplier

Coefficient	0.35	0.50	0.75	0.85	1.0	Frequency	Coefficient
Frequency (Hz)	50/60	100/120	1K	10K	100K		