



General Purpose, 105°C



Features

- Used in communication equipments, switching power supply, etc.
- Safety vent construction design

Specifications

Item	Performance Characteristics																											
Operating Temperature Range	-40 to +105°C																											
Rated voltage Range	6.3 to 100 VDC																											
Capacitance Range	0.1 to 15000 µF																											
Capacitance Tolerance	±20% (120Hz, +20°C)																											
Leakage Current (+20°C, max.)	1≤0.01 CV or 3(µA) After 1minute whichever is greater measured with rated working voltage applied.																											
Dissipation Factor (tanδ)	<table><tr><td>Working Voltage (VDC)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>D.F.(%)max</td><td>23</td><td>20</td><td>16</td><td>14</td><td>12</td><td>10</td><td>10</td><td>10</td></tr></table> For Capacitance > 1000µF , add 2% per another 1000µF (+20°C, at 120Hz)	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	D.F.(%)max	23	20	16	14	12	10	10	10									
Working Voltage (VDC)	6.3	10	16	25	35	50	63	100																				
D.F.(%)max	23	20	16	14	12	10	10	10																				
Low Temperature Characteristics (at 120Hz)	Impedance ratio max. <table><tr><td>Working Voltage (VDC)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Z (-25°C)/Z(+20°C)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z (-40°C)/Z(+20°C)</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> For Capacitance Value 1000µF , add 0.5 per another 1000µF for -25°C/+20°C For Capacitance Value 1000µF , add 1 per another 1000µF for -40°C/+20°C	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	Z (-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	Z (-40°C)/Z(+20°C)	8	6	4	4	3	3	3	3
Working Voltage (VDC)	6.3	10	16	25	35	50	63	100																				
Z (-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2																				
Z (-40°C)/Z(+20°C)	8	6	4	4	3	3	3	3																				
Load Life	Test conditions Duration time : 2000Hrs Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements:at+20°C After test requirements:≤±20% of the initial measured value Dissipation Factor: ≤200% of the initial specified value Leakage current: ≤The initial specified value																											
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature:+105°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																											

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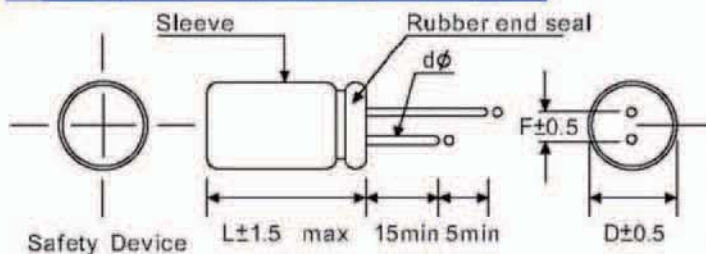
Multiplier for Ripple Current VS. Frequency

CAP(μF)/Hz		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP≤10	0.8	1.0	1.30	1.45	1.65	1.70
	10<CAP≤100	0.8	1.0	1.23	1.36	1.48	1.53
	100<CAP≤1000	0.8	1.0	1.16	1.25	1.35	1.38
	1000<CAP	0.8	1.0	1.11	1.18	1.25	1.28

Multiplier for Ripple Current VS. Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

Diagram of Dimensions: (Unit: mm)



Dφ	5	6.3	8	10	13	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12
dφ	0.5		0.6		0.8		1.0		



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Case Size

φD x L (mm)

μF	W.V. (S.V.)	16 {20}		25 {32}		35 {44}	
		Size	Ripple	Size	Ripple	Size	Ripple
1		5x11	9	5x11	9	5x11	11
4.7		→		5x11	27	5x11	29
6.8				5x11	35	5x11	38
10		5x11	38	5x11	40	5x11	42
22		5x11	56	5x11	60	5x11	62
33		5x11	65	5x11	70	5x11	78
47		5x11	100	5x11	105	5x11 6.3x11	110 115
68		5x11	105	6.3x11	120	6.3x11	140
100		5x11	115	5x11	135	6.3x11	165
		6.3x11	135	6.3x11	150	8x11	180
		8x11	165	8x11	175	8x14	190
220		6.3x11 8x11	220 230	6x11	230	8x11	300
				8x11	240	8x14	325
				10x12	285	8x16	330
						8x20 10x12	350 330
330		8x11	300	8x11	350	10x12 10x15	410 420
				8x14	352		
				10x12	355		
470		8x11 8x14 10x12	380 390 400	8x14	415	8x20	500
				10x12	445	10x12	460
				10x15	450	10x15	470
				10x20	465	10x17 10x20	480 520
560		10x12	410	10x15	460	10x17 13x14	540 500
680		8x14 10x12	470 480	10x12	450	10x20 13x21	650 750
				10x15	520		
				10x17	600		
820		10x15	550	10x15	640	10x20	760
1000		8x16	570	10x15 10x17 10x20 13x16 13x21	740 800 850 850 900	10x20	810
		8x20	595			10x25	870
		10x12	580			13x14	850
		10x13	590			13x16	860
		10x15	600			13x21	880
		10x17	630			13x26	910
		10x20	640			16x16	910
1500		10x20	820	13x21	910	13x26	970
2200		10x20	980	10x25	1180	13x26	1260
		13x16	980	13x21	1210	16x21	1290
		13x21	1020	13x26	1250	16x26	1300
		13x26	1060	16x16	1270	16x31	1400
2700		13x21	1100	16x26	1290	18x17	1280
3300		13x21	1220	16x26	1330	16x31	1500
		13x26	1240	16x31	1480	16x31	1620
		16x16	1220	18x17	1540	16x36	1680
4700		13x26	1450	16x31	1800	18x36	1900
		16x26	1620				
		18x17	1560				
5600		16x31	1720	16x36	1890	18x36	2000
		18x19	1660				
6800		16x31	1880	18x36	2040	18x41	2090
8200		16x36	1950	18x36	2090	22x42	2180
10000		18x36	2060	18x41	2160	18x41	2200
		18x41	2080	22x42	2200	25x44	2300
15000		22x42	2300	22x42	2500	-	-

•Ripple Current (mA, rms) at 105°C 120Hz

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Case Size

φD x L (mm)

μF	W.V. {S.V.}	50 {63}		63 {79}		100 {125}	
		Size	Ripple	Size	Ripple	Size	Ripple
0.1		5x11	1.3	5x11	1.3	5x11	1.3
0.22		5x11	2.9	5x11	2.9	5x11	2.9
0.33		5x11	4.2	5x11	4.2	5x11	4.2
0.47		5x11	8	5x11	8	5x11	8
1		5x11	14	5x11	14	5x11	15
2.2		5x11	20	5x11	21	5x11 6x11	22 24
3.3		5x11	26	5x11	28	5x11	30
4.7		5x11	32	5x11	34	5x11	36
6.8		5x11	40	5x11	42	6.3x11	47
10		5x11 6x11	50 55	5x11	51	6.3x11	60
22		5x11	75	5x11 6.3x11	75 85	6.3x11 8x11	98 105
33		5x11 6.3x11	90 95	6.3x11 8x11	105 115	8x11 10x12	145 155
47		6.3x11	120	6.3x11 8x11	145 155	10x12 10x15	170 180
68		8x11	155	8x11	185	10x15 10x17	240 250
100		8x11	200	8x11 10x12	220 240	10x15 10x20	250 270
220		8x16 10x12 10x15 10x17	355 350 360 365	10x17 10x20	400 430	13x26 16x26	530 560
330		10x15 10x17 10x20	435 450 470	10x20 13x21	500 570	16x26	680
470		10x20 13x21	590 610	13x21 13x26 16x26	640 700 720	16x26 16x31	840 860
560		13x21	660	13x26	770	16x36	880
680		13x21 13x26	730 770	16x26	880	16x36	920
820		13x26	850	16x26	920	18x32	970
1000		13x26 16x21 16x26	900 950 1010	16x26 16x36	1150 1220	18x41	1250
1500		16x31	1300	18x32	1350	22x42	1500
2200		16x26 16x31 18x36	1400 1450 1550	18x36 22x42	1590 2100	25x44	1880
2700		18x36	1610	22x42	1720	-	-
3300		18x36	1780	22x42	1900	-	-
4700		22x42	2050	25x44	2200	-	-
5600		25x44	2160	-	-	-	-
6800		25x44	2280	-	-	-	-
10000		25x44	2800	-	-	-	-

•Ripple Current (mA, rms) at 105°C 120Hz

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