



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.)	I≤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><td>250</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><td>16</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	250	D.F.(%)max	23	20	16	14	12	10	10	10	16										
Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	250																						
D.F.(%)max	23	20	16	14	12	10	10	10	16																						
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><td>250</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><td>3</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><td>-</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	250	Z (-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	3	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	250																						
Z (-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	3																						
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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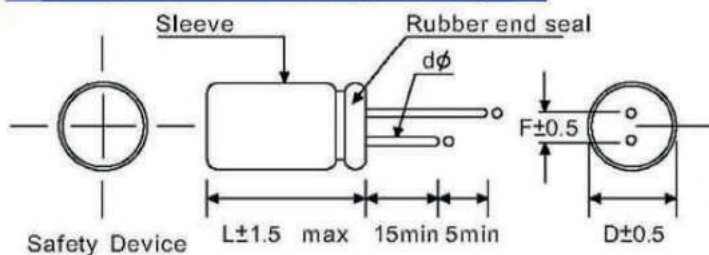
Multiplier for Ripple Current VS, Frequency

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

 $\phi D \times L$ (mm)

μF \n 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	350
				10x12	330	
330	8x11	300	8x11	350	10x12	410
			8x14	352	10x15	420
			10x12	355		
470	8x11 8x14 10x12	380 390 400	8x14	415	8x20	500
			10x12	445	10x12	460
			10x15	450	10x15	470
			10x20	465	10x17	480
				10x20	520	
560	10x12	410	10x15	460	10x17 13x14	540 500
680	8x14 10x12	470 480	10x12	450	10x20	650
			10x15	520	13x21	750
			10x17	600		
820	10x15	550	10x15	640	10x20	760
1000	8x16	570	10x15	740	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
			16x26	1290	18x17	1280
2700	13x21	1100	16x26	1330	16x31	1500
3300	13x21	1220	16x26	1480	16x31	1620
	13x26	1240	16x31	1540	16x36	1680
	16x16	1220	18x17	1450	18x36	1720
4700	13x26 16x26 18x17	1450 1620 1560	16x31	1800	18x36	1900
5600	16x31 18x19	1720 1660	16x36	1890	18x36	2000
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



General Purpose, 105°C

Case Size

φD x L (mm)

μF	W.V. {S.V.}	50 {63}		63 {79}		100 {125}		200 {250}	
		Size	Ripple	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	5x11	12
1		5x11	14	5x11	14	5x11	15	6.3x11	17
2.2		5x11	20	5x11	21	5x11 6x11	22 24	6.3x11	33
3.3		5x11	26	5x11	28	5x11	30	6.3x11	43
4.7		5x11	32	5x11	34	5x11	36	8x11	51
6.8		5x11	40	5x11	42	6.3x11	47	10x12	63
10		5x11 6x11	50 55	5x11	51	6.3x11	60	10x12 10x15	83 90
22		5x11	75	5x11 6.3x11	75 85	6.3x11 8x11	98 105	10x20	135
33		5x11 6.3x11	90 95	6.3x11 8x11	105 115	8x11 10x12	145 155	13x21	180
47		6.3x11	120	6.3x11 8x11	145 155	10x12 10x15	170 180	13x21 13x26	220 230
68		8x11	155	8x11	185	10x15 10x17	240 250	16x26	300
100		8x11	200	8x11 10x12	220 240	10x15 10x20	250 270	16x26	360
220		8x16 10x12 10x15 10x17	355 350 360 365	10x17 10x20	400 430	13x26 16x26	530 560	18x36	590
330		10x15 10x17 10x20	435 450 470	10x20 13x21	500 570	16x26	680	18x32 18x36	590 740
470		10x20 13x21	590 610	13x21 13x26 16x26	640 700 720	16x26 16x31	840 860	22x42	890
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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