



Aluminum Electrolytic Capacitors

RXK

Features

- 105°C, 2,000 ~ 5,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS Compliance

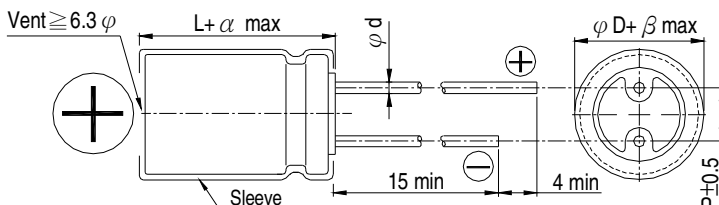


Sleeve & Marking Color: Black & Golden

SPECIFICATIONS

Items	Performance																																										
Category Temperature Range	-55°C ~ +105°C																																										
Capacitance Tolerance	±20% (at 120Hz, 20°C)																																										
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V																																										
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> </tr> </tbody> </table> <p>When the capacitance exceeds 1,000 μF, 0.02 shall be added every 1,000 μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	63	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09																										
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Impedance Ratio</td> <td>Z(-55°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		6.3	10	16	25	35	50	63	Impedance Ratio	Z(-55°C)/Z(+20°C)	4	4	3	3	3	3	3																								
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Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th rowspan="2">Cap.(μF)</th> <th colspan="7">Freq.(Hz)</th> </tr> <tr> <th>60 (50)</th> <th>120</th> <th>500</th> <th>1k</th> <th>10k</th> <th>100k</th> </tr> </thead> <tbody> <tr> <td>Under 33</td> <td>0.40</td> <td>0.55</td> <td>0.65</td> <td>0.80</td> <td>0.90</td> <td>1.00</td> </tr> <tr> <td>39 ~ 330</td> <td>0.60</td> <td>0.70</td> <td>0.80</td> <td>0.90</td> <td>0.95</td> <td>1.00</td> </tr> <tr> <td>390 ~ 1,000</td> <td>0.65</td> <td>0.80</td> <td>0.85</td> <td>0.98</td> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>1,200 up above</td> <td>0.80</td> <td>0.90</td> <td>0.95</td> <td>0.98</td> <td>1.00</td> <td>1.00</td> </tr> </tbody> </table>	Cap.(μF)	Freq.(Hz)							60 (50)	120	500	1k	10k	100k	Under 33	0.40	0.55	0.65	0.80	0.90	1.00	39 ~ 330	0.60	0.70	0.80	0.90	0.95	1.00	390 ~ 1,000	0.65	0.80	0.85	0.98	1.00	1.00	1,200 up above	0.80	0.90	0.95	0.98	1.00	1.00
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DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

φD	5	6.3	8	10	12.5	16
P	2.0	2.5	3.5	5.0		7.5
φd	0.5		0.6		0.8	
α	1.0			1.5		
β	0.5					

Remark: 16 × 20 is used flat type rubber bung



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RXK

Dimension: $\phi D \times L(mm)$

Ripple Current: mA/rms at 100k Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC Item μF	6.3V (0J)					10V (1A)					16V (1C)				
	$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)	
		20°C	-10°C	120 Hz	100k Hz		20°C	-10°C	120 Hz	100k Hz		20°C	-10°C	120 Hz	100k Hz
56											5x11	0.72	1.8	116	165
68											5x11	0.72	1.8	126	180
82						5x11	0.72	1.8	116	165					
100						5x11	0.72	1.8	126	180					
120	5x11	0.72	1.8	116	165						6.3x11	0.38	0.95	179	255
180						6.3x11	0.38	0.95	179	255	6.3x15	0.27	0.68	231	330
220	6.3x11	0.38	0.95	179	255	6.3x11	0.38	0.95	196	280					
270	6.3x11	0.38	0.95	196	280	6.3x15	0.27	0.68	231	330	8x11.5 10x12.5	0.20 0.12	0.50 0.30	291 438	415 625
330	6.3x15	0.27	0.68	231	330	8x11.5	0.20	0.50	291	415	8x11.5 8x15 10x12.5	0.20 0.16 0.12	0.50 0.40 0.30	315 347 540	450 495 675
390	8x11.5	0.20	0.50	332	415	8x11.5 10x12.5	0.20 0.12	0.50 0.30	360 500	450 625					
470	8x11.5 10x12.5	0.20 0.12	0.50 0.30	360 500	450 625	8x15 10x12.5	0.16 0.12	0.40 0.30	396 540	495 675	8x15 8x20 10x16	0.16 0.11 0.084	0.40 0.28 0.21	472 512 660	590 640 825
560	8x15 10x12.5	0.16 0.12	0.40 0.30	396 540	495 675	8x15	0.16	0.40	472	590	8x20 10x16	0.11 0.084	0.28 0.21	560 728	700 910
680	10x16	0.084	0.21	660	825	8x20 10x16	0.11 0.084	0.28 0.21	512 660	640 825	10x20	0.062	0.16	832	1,040
820	8x15 8x20 10x16	0.16 0.11 0.084	0.40 0.28 0.21	472 512 728	590 640 910	8x20 10x16	0.11 0.084	0.28 0.21	560 728	700 910	10x20 10x25	0.062 0.052	0.16 0.13	904 1,008	1,130 1,260
1,000	8x20	0.11	0.28	560	700	10x20	0.062	0.16	832	1,040	10x25	0.052	0.13	1,112	1,390
1,200	10x20	0.062	0.16	936	1,040	10x20 10x25	0.062 0.052	0.16 0.13	1,017 1,134	1,130 1,260	10x30 12.5x20	0.044 0.046	0.11 0.12	1,296 1,206	1,440 1,340
1,500	10x20 10x25	0.062 0.052	0.16 0.13	1,017 1,134	1,130 1,260	10x25 10x30	0.052 0.044	0.13 0.11	1,251 1,296	1,390 1,440	10x30 12.5x20 12.5x25	0.044 0.046 0.034	0.11 0.12 0.085	1,413 1,305 1,521	1,570 1,450 1,690
1,800	10x25	0.052	0.13	1,251	1,390	10x30 12.5x20	0.044 0.046	0.11 0.12	1,413 1,206	1,570 1,340	12.5x25	0.034	0.085	1,629	1,810
2,200	10x30 12.5x20	0.044 0.046	0.11 0.12	1,296 1,206	1,440 1,340	12.5x20 12.5x25	0.046 0.034	0.12 0.085	1,305 1,521	1,450 1,690	12.5x30 16x20	0.030 0.035	0.075 0.087	1,755 1,485	1,950 1,650
2,700	10x30 12.5x20 12.5x25	0.044 0.046 0.034	0.11 0.12 0.085	1,413 1,305 1,521	1,570 1,450 1,690	12.5x25 12.5x30	0.034 0.030	0.085 0.075	1,629 1,755	1,810 1,950	12.5x30 12.5x35 16x25	0.030 0.027 0.028	0.075 0.068 0.070	1,917 1,980 1,863	2,130 2,200 2,070
3,300	12.5x25	0.034	0.085	1,629	1,810	12.5x30 12.5x35	0.030 0.027	0.075 0.068	1,917 1,980	2,130 2,200	12.5x35 12.5x40 16x25	0.027 0.024 0.028	0.068 0.060 0.070	2,151 2,196 2,025	2,390 2,440 2,250
3,900	12.5x30	0.030	0.075	1,755	1,950	12.5x35 12.5x40 16x20 16x25	0.027 0.024 0.035 0.028	0.068 0.060 0.087 0.070	2,196 2,151 1,692 1,863	2,440 2,390 1,880 2,070	16x31.5	0.025	0.063	2,115	2,350
4,700	12.5x30 12.5x35 16x20	0.030 0.027 0.035	0.075 0.068 0.087	1,917 1,980 1,44	2,130 2,200 1,600	12.5x40 16x25	0.024 0.028	0.060 0.070	2,358 2,025	2,620 2,250	16x31.5 16x35.5	0.025 0.022	0.055 0.055	2,295 2,295	2,550 2,550
5,600	12.5x35 12.5x40 16x25	0.027 0.024 0.028	0.068 0.060 0.070	2,151 2,196 1,863	2,390 2,440 2,070	16x31.5	0.025	0.063	2,115	2,350	16x35.5 16x40	0.022 0.018	0.055 0.045	2,448 2,610	2,720 2,900
6,800	12.5x40 16x25 16x31.5	0.024 0.028 0.025	0.060 0.070 0.063	2,358 2,025 2,115	2,620 2,250 2,350	16x31.5 16x35.5	0.025 0.022	0.063 0.055	2,295 2,295	2,550 2,550	16x40 18x35.5	0.018 0.021	0.045 0.053	2,844 2,394	3,160 2,660
8,200	16x31.5	0.025	0.063	2,295	2,550	16x35.5	0.022	0.055	2,448	2,720	18x35.5	0.021	0.053	2,601	2,890
10,000	16x35.5	0.022	0.055	2,691	2,990										



Aluminum Electrolytic Capacitors

RXK

Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 100k Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC Item μF	25V (1E)					35V (1V)					50V (1H)				
	$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)	
		20°C	-10°C	120 Hz	100k Hz		20°C	-10°C	120 Hz	100k Hz		20°C	-10°C	120 Hz	100k Hz
18											5×11	1.1	3.3	72	130
22											5×11	1.1	3.3	83	150
27						5×11	0.72	1.8	91	165					
33						5×11	0.72	1.8	99	180					
39	5×11	0.72	1.8	116	165						6.3×11	0.56	1.6	154	220
47	5×11	0.72	1.8	126	180						6.3×11	0.56	1.6	161	230
56						6.3×11	0.38	0.95	179	255	6.3×15	0.41	1.2	217	310
68						6.3×11	0.38	0.95	196	280	8×11.5	0.29	0.84	238	340
82	6.3×11	0.38	0.95	179	255	6.3×15	0.27	0.68	231	330	8×11.5	0.29	0.84	249	355
											8×15	0.25	0.75	329	470
											10×12.5	0.16	0.40	336	480
100	6.3×11	0.38	0.95	196	280						10×12.5	0.16	0.40	371	530
						8×11.5	0.20	0.50	291	415	8×15	0.25	0.75	392	560
						10×12.5	0.12	0.30	438	625	8×20	0.18	0.52	427	610
											10×16	0.12	0.30	529	755
150	8×11.5	0.20	0.50	291	415	8×11.5	0.20	0.50	315	450	10×16	0.12	0.30	588	840
						10×12.5	0.12	0.30	473	675					
180	8×11.5	0.20	0.50	315	450	8×15	0.16	0.40	347	495	8×20	0.18	0.52	525	750
	10×12.5	0.12	0.30	438	625						10×20	0.088	0.22	662	945
						8×15	0.16	0.40	413	590	10×20	0.088	0.22	728	1,040
						8×20	0.11	0.28	448	640	10×25	0.068	0.17	805	1,150
						10×16	0.084	0.21	578	825					
270						8×20	0.11	0.28	490	700	10×25	0.068	0.17	896	1,280
						10×16	0.084	0.21	637	910					
	8×15	0.16	0.40	413	590						10×30	0.059	0.15	882	1,260
	8×20	0.11	0.28	448	640	10×20	0.062	0.16	728	1,040	12.5×20	0.059	0.15	833	1,190
	10×16	0.084	0.21	578	825										
390	8×20	0.11	0.28	560	700	10×20	0.062	0.16	904	1,130	12.5×20	0.059	0.15	952	1,190
	10×16	0.084	0.21	728	910	10×25	0.052	0.13	1,008	1,260					
470	10×20	0.062	0.16	832	1,040	10×25	0.052	0.13	1,112	1,390	10×30	0.059	0.15	1,176	1,470
											12.5×25	0.045	0.11	1,192	1,490
560	10×20	0.062	0.16	904	1,130	10×30	0.044	0.11	1,152	1,440	12.5×25	0.045	0.11	1,304	1,630
	10×25	0.052	0.13	1,008	1,260	12.5×20	0.046	0.12	1,072	1,340	12.5×30	0.039	0.098	1,376	1,720
						10×30	0.044	0.11	1,256	1,570	12.5×30	0.039	0.098	1,520	1,900
						12.5×20	0.046	0.12	1,160	1,450	12.5×35	0.033	0.083	1,512	1,890
						12.5×25	0.034	0.085	1,352	1,690	16×20	0.048	0.120	1,248	1,560
											12.5×35	0.033	0.083	1,656	2,070
						12.5×25	0.034	0.085	1,448	1,810	12.5×40	0.029	0.073	1,624	2,030
											16×25	0.033	0.083	1,504	1,880
820	10×30	0.044	0.11	1,152	1,440	12.5×30	0.030	0.075	1,560	1,950	12.5×40	0.029	0.073	1,800	2,250
	12.5×20	0.046	0.12	1,072	1,340	16×20	0.035	0.087	1,376	1,720	16×25	0.033	0.083	1,664	2,080
											16×31.5	0.029	0.073	1,720	2,150
						12.5×30	0.030	0.075	1,917	2,130	16×31.5	0.029	0.073	2,088	2,320
						12.5×35	0.027	0.068	1,980	2,200	16×35.5	0.025	0.063	2,115	2,350
						16×25	0.028	0.070	1,863	2,070					
						12.5×35	0.027	0.068	2,151	2,390					
						12.5×40	0.024	0.060	2,196	2,440	16×35.5	0.025	0.063	2,286	2,540
						16×25	0.028	0.070	2,025	2,250	16×40	0.021	0.063	2,336	2,595
1,800	12.5×30	0.030	0.075	1,917	2,130	12.5×40	0.024	0.060	2,358	2,620	16×40	0.021	0.063	2,466	2,740
	12.5×35	0.027	0.068	1,980	2,200	16×31.5	0.025	0.063	2,115	2,350	18×35.5	0.023	0.058	2,160	2,400
	16×25	0.028	0.070	1,863	2,070										
	12.5×35	0.027	0.068	2,151	2,390										
	12.5×40	0.024	0.060	2,196	2,440	16×31.5	0.025	0.063	2,295	2,550	18×35.5	0.023	0.058	2,349	2,610
	16×25	0.028	0.070	2,025	2,250	16×35.5	0.022	0.055	2,295	2,550	18×40	0.020	0.050	2,385	2,650
2,700	16×31.5	0.025	0.063	2,115	2,350	16×35.5	0.022	0.055	2,448	2,720					
						16×40	0.018	0.045	2,610	2,900					
						18×35.5	0.021	0.053	2,394	2,660					
3,300	16×31.5	0.025	0.063	2,295	2,550	18×35.5	0.021	0.053	2,601	2,890					
	16×35.5	0.022	0.055	2,295	2,550	18×40	0.017	0.043	2,709	3,010					
3,900	16×35.5	0.022	0.055	2,448	2,720										
	16×40	0.018	0.045	2,610	2,900	18×40	0.017	0.043	2,934	3,260					
	18×35.5	0.021	0.053	2,394	2,660										
4,700	18×35.5	0.021	0.053	2,601	2,890										
	18×40	0.017	0.043	2,709	3,010										
5,600	18×40	0.017	0.043	2,934	3,260										



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Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 100k Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC Item μF	63V(1J)				
	$\phi D \times L$	Impedance (Ω , Max/100K Hz)		Ripple Current (mA/rms, 105°C)	
		20°C	-10°C	120 Hz	100k Hz
12	5x11	1.90	4.78	55	100
27	6.3x11	1.10	2.78	88	160
33	6.3x11	1.10	2.75	96	175
39	6.3x15	0.62	1.55	161	230
47	8x11.5	0.49	1.23	193	275
56	8x11.5	0.49	1.23	203	290
	10x12.5	0.27	0.675	294	420
68	8x15	0.34	0.850	252	360
	10x12.5	0.27	0.675	354	505
	10x16	0.21	0.525	366	523
82	8x20	0.21	0.525	350	500
100	8x15	0.34	0.850	308	440
120	10x16	0.210	0.525	455	650
	10x20	0.160	0.400	490	700
150	8x20	0.210	0.525	476	680
	10x25	0.130	0.325	546	780
180	10x20	0.160	0.400	553	790
	10x30	0.100	0.250	672	960
220	10x25	0.130	0.325	648	925
	12.5x20	0.110	0.275	609	870
270	10x30	0.100	0.250	812	1,160
	12.5x25	0.074	0.185	805	1,150
330	12.5x20	0.110	0.275	746	1,065
390	12.5x25	0.074	0.185	1,088	1,360
	12.5x30	0.068	0.170	1,024	1,280
470	12.5x30	0.068	0.170	1,120	1,400
	12.5x35	0.063	0.158	1,112	1,390
	16x20	0.059	0.148	1,080	1,350
	16x25	0.055	0.138	1,184	1,480
560	12.5x40	0.051	0.128	1,224	1,530
	16x25	0.055	0.138	1,296	1,620
680	12.5x35	0.063	0.158	1,336	1,670
	16x31.5	0.046	0.115	1,376	1,720
820	12.5x40	0.051	0.128	1,480	1,850
	16x31.5	0.046	0.115	1,512	1,890
	16x35.5	0.040	0.100	1,528	1,910
1,000	16x35.5	0.040	0.100	1,688	2,110
	18x35.5	0.040	0.100	1,576	1,970
1,500	18x35.5	0.040	0.100	2,169	2,410

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