



# Aluminum Electrolytic Capacitors

**RXJ**

## 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

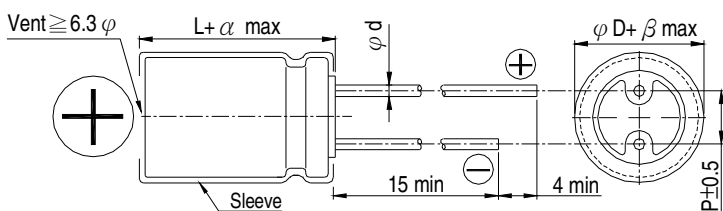


Sleeve & Marking Color: Brown & White

## 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"> <tr> <td>Rated Voltage</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>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> <td>0.08</td> </tr> </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	100	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																								
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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"> <tr> <td colspan="2">Rated Voltage</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>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> <td>3</td> </tr> </table>	Rated Voltage		6.3	10	16	25	35	50	63	100	Impedance Ratio	Z(-55°C)/Z(+20°C)	4	4	3	3	3	3	3	3																						
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Ripple Current & Frequency Multipliers	<table border="1"> <tr> <td rowspan="2">Cap.(μF)</td> <td colspan="7">Freq.(Hz)</td> </tr> <tr> <td>60 (50)</td> <td>120</td> <td>500</td> <td>1k</td> <td>10k</td> <td>100k</td> </tr> <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> </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	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5		0.6			0.8	
α	1.0			1.5			
β	0.5						



# Aluminum Electrolytic Capacitors

**RXJ**

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

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

## DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC Item $\mu\text{F}$	6.3V (0J)					10V (1A)					16V (1C)				
	$\phi D \times L$	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance ( $\Omega$ , 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
33											5x11	1.30	3.90	108	154
39											5x11	1.30	3.90	108	154
47						5x11	2.10	5.50	78	111	6.3x11	0.60	1.80	182	260
56						5x11	1.90	4.80	85	121	6.3x11	0.60	1.80	182	260
68						5x11	1.30	3.90	108	154	6.3x11	0.60	1.80	182	260
100	5x11	1.30	3.90	108	154	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260
220	6.3x11	0.60	1.80	182	260	8x11.5	0.33	0.99	280	400	8x11.5	0.33	0.99	320	400
330	8x11.5	0.33	0.88	280	400	8x11.5	0.33	0.99	280	400	10x12.5	0.25	0.75	360	510
390	8x11.5	0.33	0.88	320	400	10x12.5	0.27	0.75	410	510	10x16	0.19	0.57	510	635
470	10x12.5	0.25	0.75	410	510	10x12.5	0.25	0.75	410	510	10x16	0.19	0.57	510	635
560	10x12.5	0.25	0.75	410	510	10x16	0.19	0.57	510	635	10x20	0.14	0.42	775	860
680	10x16	0.19	0.57	510	635	10x16	0.19	0.57	510	635	10x20	0.14	0.42	775	860
1,000	10x20	0.14	0.42	690	860	10x20	0.14	0.37	690	860	12.5x20	0.085	0.26	1,000	1,250
1,200	10x20	0.14	0.42	775	860	10x25	0.12	0.30	930	1,030	12.5x20	0.085	0.26	1,125	1,250
2,200	12.5x20	0.085	0.26	1,125	1,250	12.5x25	0.070	0.21	1,200	1,355	12.5x25	0.070	0.21	1,200	1,355
3,300	12.5x25	0.070	0.21	1,200	1,355	12.5x25	0.070	0.21	1,200	1,355	16x31.5	0.048	0.14	1,830	2,030
4,700	16x25	0.060	0.18	1,595	1,770	16x31.5	0.048	0.14	1,830	2,030	16x35.5	0.044	0.13	2,065	2,295

V. DC Item $\mu\text{F}$	25V (1E)					35V (1V)					50V (1H)				
	$\phi D \times L$	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi D \times L$	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)	
		20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz
1											5x11	5.0	15.0	43	78
2.2											5x11	4.0	12.0	48	88
3.3											5x11	3.50	11.0	52	94
4.7											5x11	3.00	9.00	55	100
6.8											5x11	3.00	9.00	55	100
10											5x11	2.00	6.00	68	124
22						5x11	1.30	3.90	108	154	6.3x11	0.60	1.80	143	260
33	5x11	1.30	3.90	108	154	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	143	260
39	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260
47	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260	8x11.5	0.33	0.99	320	400
56	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260	8x11.5	0.33	0.99	320	400
68	6.3x11	0.60	1.80	182	260	6.3x11	0.60	1.80	182	260	8x11.5	0.33	0.99	320	400
100	8x11.5	0.33	0.99	320	400	8x11.5	0.33	0.99	320	400	10x16	0.19	0.57	445	635
220	10x12.5	0.25	0.75	360	510	10x16	0.19	0.57	445	635	10x25	0.12	0.30	825	1,030
330	10x16	0.19	0.57	445	635	10x20	0.12	0.42	600	860	12.5x20	0.085	0.26	875	1,250
390	10x20	0.14	0.42	775	965	10x25	0.12	0.30	930	1,030	12.5x25	0.070	0.21	1,085	1,355
470	10x20	0.14	0.42	775	965	12.5x20	0.085	0.26	1,000	1,250	12.5x25	0.070	0.21	1,085	1,355
560	10x25	0.12	0.30	930	1,030	12.5x20	0.085	0.26	1,000	1,250	12.5x25	0.070	0.21	1,085	1,355
680	12.5x20	0.085	0.26	1,000	1,250	12.5x25	0.070	0.21	1,085	1,355	16x25	0.060	0.18	1,415	1,770
1,000	12.5x25	0.070	0.23	1,080	1,355	12.5x25	0.070	0.21	1,085	1,355	16x25	0.060	0.18	1,595	1,770
1,200	12.5x25	0.070	0.21	1,200	1,355	12.5x25	0.070	0.21	1,200	1,355	16x31.5	0.048	0.14	1,830	2,030
2,200	16x25	0.060	0.18	1,595	1,770	16x35.5	0.044	0.13	2,065	2,295	18x40	0.037	0.10	2,465	2,740
3,300	16x35.5	0.044	0.13	2,065	2,295	18x40	0.037	0.10	2,465	2,740					
4,700	18x40	0.037	0.10	2,465	2,740										



# Aluminum Electrolytic Capacitors

**RXJ**

Dimension:  $\phi$  D×L(mm)

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

## DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC Item $\mu$ F	63V (1J)					100V (2A)				
	$\phi$ D×L	Impedance ( $\Omega$ , Max/100K Hz)		Ripple Current (mA/rms, 105°C)		$\phi$ D×L	Impedance ( $\Omega$ , 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
1						5×11	7.0	25.0	36	66
2.2						5×11	6.00	21.0	40	72
3.3						5×11	5.00	18.0	43	78
4.7						6.3×11	1.20	4.20	100	180
6.8						6.3×11	1.20	4.20	100	180
10	6.3×11	1.20	4.20	100	180	8×11.5	0.56	2.00	168	305
22	6.3×11	1.20	4.20	100	180	8×11.5	0.56	2.00	168	308
33	8×11.5	0.56	2.00	170	305	10×12.5	0.50	1.80	210	380
39	8×11.5	0.56	2.00	170	305	10×16	0.32	1.10	350	500
47	8×11.5	0.56	2.00	170	305	10×20	0.27	0.95	435	620
56	10×12.5	0.50	1.80	265	380	10×20	0.27	0.95	435	620
68	10×12.5	0.50	1.80	265	380	10×25	0.21	0.63	530	760
100	10×20	0.27	0.95	435	620	12.5×20	0.16	0.56	625	890
220	12.5×20	0.094	0.24	570	820	16×25	0.090	0.32	1,010	1,440
330	12.5×25	0.073	0.21	770	1,100	16×31.5	0.060	0.17	1,255	1,790
390	12.5×25	0.073	0.21	770	1,100	16×35.5	0.056	0.14	1,650	2,065
470	16×25	0.060	0.18	1,420	1,770					
560	16×31.5	0.048	0.14	1,625	2,030					
680	16×31.5	0.048	0.14	1,625	2,030					
1,000	18×35.5	0.041	0.11	1,790	2,240					