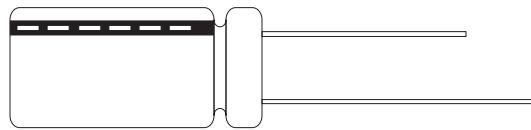


FEATURES

- 105°C, 2000 ~ 5000 hours assured.
- Low ESR, suitable for switching power supplies.
- Smaller size with large permissible ripple current.

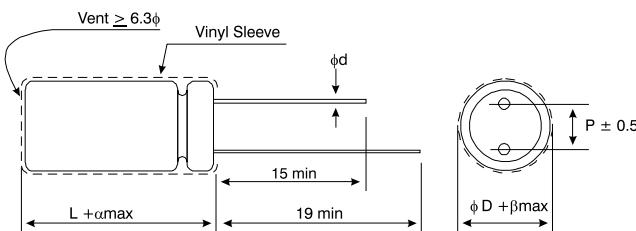


SPECIFICATIONS

Item	Performance																																																			
Operating Temperature	6.3 ~ 63V				100V																																															
	-55°C ~ +105°C				-40°C ~ +105°C																																															
Capacitance Tolerance	$\pm 20\%$ (120Hz, 20°C)																																																			
Leakage Current (at 20°C)	$I = 0.01CV$ or $3(\mu A)$ whichever is greater (after 2 minutes) Where, C = rated capacitance in μF , V = rated DC working voltage in V																																																			
Dissipation Factor Tan δ at 120 Hz, 20°C	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	0.08	0.05																																											
	When the capacitance exceed 1000 μF 0.02 shall be added every 1000 μF .																																																			
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below																																																			
	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																																											
Load Life Test	Test Time		2000hrs for $\phi D = 5\text{--}8\text{mm}$ 5000hrs for $\phi D > 10\text{mm}$																																																	
	Capacitance Change		Within $\leq \pm 20\%$ of initial value																																																	
	Dissipation Factor		Less than 200% of specified value.																																																	
	Leakage Current		Within specified value																																																	
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2,000/5,000 hours at 105°C.																																																			
Shelf Life Test	Test Time		1000 Hrs																																																	
	Capacitance Change		Within $\leq \pm 20\%$																																																	
	Dissipation Factor		Less than 200% of specified value																																																	
	Leakage Current		Within Specified value																																																	
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.																																																			
Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>Freq. (Hz)</th> <th>60(50)</th> <th>120</th> <th>500</th> <th>1K</th> <th>10K</th> <th>100K</th> </tr> </thead> <tbody> <tr> <td>Cap. (μF)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></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 to 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 to 1000</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>1200 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>										Freq. (Hz)	60(50)	120	500	1K	10K	100K	Cap. (μF)							Under 33	0.40	0.55	0.65	0.80	0.90	1.00	39 to 330	0.60	0.70	0.80	0.90	0.95	1.00	390 to 1000	0.65	0.80	0.85	0.98	1.00	1.00	1200 up above	0.80	0.90	0.95	0.98	1.00	1.00
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1200 up above	0.80	0.90	0.95	0.98	1.00	1.00																																														

LEAD SPACING AND DIAMETER

ϕD	5	6.3	8	10	13	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					



DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

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

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

VDC μF	6.3V(0J)				10V(1A)				16V(1C)				
	φDxL	Impedance (Ω) Max @ 100KHz		Ripple current (mA rms) @ 105°C		φDxL	Impedance (Ω) Max @ 100KHz		Ripple current (mA rms) @ 105°C		φDxL	Impedance (Ω) Max @ 100KHz	
		20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz		20°C	-10°C
33											5 x 11	1.30	3.90
39											5 x 11	1.30	3.90
47						5 x 11	2.10	5.50	78	111	6.3 x 11	0.60	1.80
56						5 x 11	1.90	4.80	85	121	6.3 x 11	0.60	1.80
68						5 x 11	1.30	3.90	108	154	6.3 x 11	0.60	1.80
100	5 x 11	1.30	3.90	108	154	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80
220	6.3 x 11	0.60	1.80	182	260	8 x 11.5	0.33	0.99	280	400	8 x 11.5	0.33	0.99
330	8 x 11.5	0.33	0.88	280	400	8 x 11.5	0.33	0.99	280	400	10 x 12.5	0.25	0.75
390	8 x 11.5	0.33	0.88	320	400	10 x 12.5	0.27	0.70	410	510	10 x 16	0.19	0.57
470	10 x 12.5	0.25	0.75	410	510	10 x 12.5	0.25	0.75	410	510	10 x 16	0.19	0.57
560	10 x 12.5	0.25	0.75	410	510	10 x 16	0.19	0.57	510	635	10 x 20	0.14	0.42
680	10 x 16	0.19	0.57	510	635	10 x 16	0.19	0.57	510	635	10 x 20	0.14	0.42
1000	10 x 20	0.14	0.42	690	860	10 x 20	0.14	0.37	690	860	12.5 x 20	0.085	0.26
1200	10 x 20	0.14	0.42	775	860	10 x 25	0.12	0.30	930	1030	12.5 x 20	0.085	0.26
2200	12.5 x 20	0.085	0.26	1125	1250	12.5 x 25	0.070	0.21	1200	1355	12.5 x 25	0.070	0.21
3300	12.5 x 25	0.070	0.21	1200	1355	12.5 x 25	0.070	0.21	1200	1355	16 x 31.5	0.048	0.14
4700	16 x 25	0.060	0.18	1595	1770	16 x 31.5	0.048	0.14	1830	2030	16 x 35.5	0.044	0.13
												2065	2295

VDC μF	25V(1E)				35V(1V)				50V(1H)				
	φDxL	Impedance (Ω) Max @ 100KHz		Ripple current (mA rms) @ 105°C		φDxL	Impedance (Ω) Max @ 100KHz		Ripple current (mA rms) @ 105°C		φDxL	Impedance (Ω) Max @ 100KHz	
		20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz		20°C	-10°C
1											5 x 11	5.0	15.0
2.2											5 x 11	4.0	12.0
3.3											5 x 11	3.50	11.0
4.7											5 x 11	3.00	9.00
6.8											5 x 11	3.00	9.00
10											5 x 11	2.00	6.00
22						5 x 11	1.30	3.90	108	154	6.3 x 11	0.60	1.80
33	5 x 11	1.30	3.90	108	154	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80
39	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80
47	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80	182	260	8 x 11.5	0.33	0.99
56	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80	182	260	8 x 11.5	0.33	0.99
68	6.3 x 11	0.60	1.80	182	260	6.3 x 11	0.60	1.80	182	260	8 x 11.5	0.33	0.99
100	8 x 11.5	0.33	0.99	320	400	8 x 11.5	0.33	0.99	320	400	10 x 16	0.19	0.57
220	10 x 12.5	0.25	0.75	360	510	10 x 16	0.19	0.57	445	635	10 x 25	0.12	0.30
330	10 x 16	0.19	0.57	445	635	10 x 20	0.12	0.42	600	860	12.5 x 20	0.085	0.26
390	10 x 20	0.14	0.42	775	635	10 x 25	0.12	0.30	930	1030	12.5 x 25	0.070	0.21
470	10 x 20	0.14	0.42	775	635	12.5 x 20	0.085	0.26	1000	1250	12.5 x 25	0.070	0.21
560	10 x 25	0.12	0.30	930	1030	12.5 x 20	0.085	0.26	1000	1250	12.5 x 25	0.070	0.21
680	12.5 x 20	0.085	0.26	1000	1250	12.5 x 25	0.070	0.21	1085	1355	16 x 25	0.060	0.18
1000	12.5 x 25	0.070	0.23	1080	1355	12.5 x 25	0.070	0.21	1085	1355	16 x 25	0.060	0.18
1200	12.5 x 25	0.070	0.21	1200	1355	12.5 x 25	0.070	0.21	1200	1355	16 x 31.5	0.048	0.14
2200	16 x 25	0.060	0.18	1595	1770	16 x 35.5	0.044	0.13	2065	2295	18 x 40	0.037	0.1
3300	16 x 35.5	0.044	0.13	2065	2295	18 x 40	0.037	0.10	2465	2740			
4700	18 x 40	0.037	0.1	2465	2740								



DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

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

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

VDC μF	Item	63V(1J)				100V(2A)			
		$\phi D \times L$	Impedance (Ω) Max @ 100KHz		Ripple current (mA rms) @ 105°C		$\phi D \times L$	Impedance (Ω) Max @ 100KHz	
			20°C	-10°C	120Hz	100KHz		20°C	-10°C
1							5 x 11	7.00	25
2.2							5 x 11	6.00	21
3.3							5 x 11	5.00	18.0
4.7							6.3 x 11	1.20	4.20
6.8							6.3 x 11	1.20	4.20
10	6.3 x 11	1.20	4.2	100	180		8 x 11.5	0.56	2.00
22	6.3 x 11	1.20	4.2	100	180		8 x 11.5	0.56	2.00
33	8 x 11.5	0.56	2.00	170	305		10 x 12.5	0.50	1.80
39	8 x 11.5	0.56	2.00	170	305		10 x 16	0.32	1.10
47	8 x 11.5	0.56	2.00	170	305		10 x 20	0.27	0.95
56	10 x 12.5	0.50	1.80	265	380		10 x 20	0.27	0.95
68	10 x 12.5	0.50	1.80	265	380		10 x 25	0.21	0.63
100	10 x 20	0.27	0.95	600	620		13 x 20	0.16	0.56
220	12.5 x 20	0.094	0.24	570	820		16 x 25	0.090	0.32
330	12.5 x 25	0.073	0.21	770	1100		16 x 31.5	0.060	0.17
390	12.5 x 25	0.073	0.21	770	1100		16 x 35.5	0.056	0.14
470	16 x 25	0.060	0.18	1420	1770				
560	16 x 31.5	0.048	0.14	1625	2030				
680	16 x 31.5	0.048	0.14	1625	2030				
1000	18 x 35.5	0.041	0.11	1790	2240				

PART NUMBER EXAMPLE

RXJ 101 M 1E BK 080115
 Series Name Capacitance Tolerance Rated Voltage Package Case Size