



RXW Series

Features

- 105°C, 4,000 ~ 7,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS Compliance

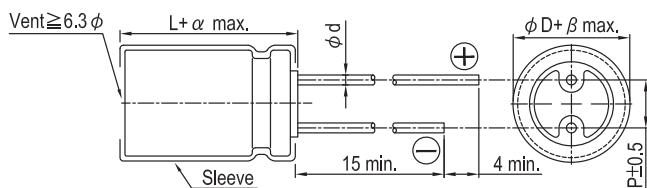


Specifications

Sleeve & Marking Color: Black & Golden

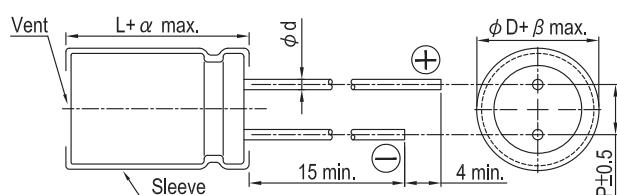
Items	Performance																																													
Category Temperature Range	6.3 ~ 63V				100V																																									
	-55°C ~ +105°C				-40°C ~ +105°C																																									
Capacitance Tolerance	± 20 % (at 120Hz, 20°C)																																													
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																																													
Tanδ (at 120 Hz, 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>Tanδ (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 1000µF, 0.02 shall be added every 1000µF increase.</p>									Rated Voltage	6.3	10	16	25	35	50	63	100	Tanδ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																			
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Endurance	<table border="1"> <tr> <td>Test Time</td> <td colspan="8">4,000 Hrs for $\phi D \leq 6.3$ mm; 5,000 Hrs for $\phi D = 8$ mm; 6,000 Hrs for $\phi D = 10$ mm; 7,000 Hrs for $\phi D \geq 12.5$ mm</td> </tr> <tr> <td>Capacitance Change</td> <td colspan="8">Within ±25% of initial value</td> </tr> <tr> <td>Tanδ</td> <td colspan="8">Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td colspan="8">Within specified value</td> </tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 4,000 ~ 7,000 hours at 105°C.</p>									Test Time	4,000 Hrs for $\phi D \leq 6.3$ mm; 5,000 Hrs for $\phi D = 8$ mm; 6,000 Hrs for $\phi D = 10$ mm; 7,000 Hrs for $\phi D \geq 12.5$ mm								Capacitance Change	Within ±25% of initial value								Tanδ	Less than 200% of specified value								Leakage Current	Within specified value								
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Shelf Life Test	<table border="1"> <tr> <td>Test Time</td> <td colspan="8">1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td colspan="8">Within ±25% of initial value</td> </tr> <tr> <td>Tanδ</td> <td colspan="8">Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td colspan="8">Within specified value</td> </tr> </table> <p>* 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.</p>									Test Time	1,000 Hrs								Capacitance Change	Within ±25% of initial value								Tanδ	Less than 200% of specified value								Leakage Current	Within specified value								
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Ripple Current and Frequency Multipliers	<table border="1"> <tr> <td>Freq.(Hz)</td> <td>120</td> <td>1k</td> <td>10k</td> <td>100k up</td> </tr> <tr> <td>Cap.(µF)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>under ~ 33</td> <td>0.42</td> <td>0.70</td> <td>0.90</td> <td>1.0</td> </tr> <tr> <td>39 ~ 270</td> <td>0.5</td> <td>0.73</td> <td>0.92</td> <td>1.0</td> </tr> <tr> <td>330 ~ 680</td> <td>0.55</td> <td>0.77</td> <td>0.94</td> <td>1.0</td> </tr> <tr> <td>820 ~ 1,800</td> <td>0.6</td> <td>0.80</td> <td>0.96</td> <td>1.0</td> </tr> <tr> <td>2,200 ~ 15,000</td> <td>0.7</td> <td>0.85</td> <td>0.98</td> <td>1.0</td> </tr> </table>									Freq.(Hz)	120	1k	10k	100k up	Cap.(µF)					under ~ 33	0.42	0.70	0.90	1.0	39 ~ 270	0.5	0.73	0.92	1.0	330 ~ 680	0.55	0.77	0.94	1.0	820 ~ 1,800	0.6	0.80	0.96	1.0	2,200 ~ 15,000	0.7	0.85	0.98	1.0		
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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		L<20: 1.5, L≥20: 2.0					
β			0.5				

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:



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

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

Dimension and Permissible Ripple Current

Rated Volt. V _{DC} Contents Cap. (μF)	6.3V (0J)				10V (1A)				16V (1C)				25V (1E)				
	$\phi D \times L$	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	$\phi D \times L$	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	$\phi D \times L$	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	$\phi D \times L$	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms) 100k Hz	
		20°C	-10°C			20°C	-10°C			20°C	-10°C			20°C	-10°C		
4.7														5×11	0.6	1.2	180
10										5×11	0.6	1.2	180	5×11	0.6	1.2	180
22	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	
33	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	
39														5×11	0.6	1.2	180
47	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	
56									5×11	0.6	1.2	180					
82					5×11	0.6	1.2	180					6.3×11	0.25	0.50	290	
100	5×11	0.6	1.2	180	5×11	0.6	1.2	180	6.3×11	0.25	0.5	290	6.3×11	0.25	0.50	290	
120									6.3×11	0.25	0.5	290	6.3×15	0.23	0.46	430	
150	6.3×11	0.25	0.5	290	6.3×11	0.25	0.5	290	6.3×11	0.25	0.5	290	8×11.5	0.117	0.234	555	
180					6.3×11	0.25	0.5	290	6.3×15	0.23	0.46	430					
220	6.3×11	0.25	0.5	290	6.3×11	0.25	0.5	290	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555	
330	6.3×11 6.3×15	0.25 0.23	0.50 0.46	290 430	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555	8×15 10×12.5	0.085 0.090	0.17 0.18	730 755	
470	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555	8×15 10×12.5	0.085 0.090	0.17 0.18	730 755	8×20 10×16	0.065 0.068	0.130 0.136	995 1,050	
560	8×11.5	0.117	0.234	555									10×20	0.052	0.104	1,220	
680	10×12.5	0.090	0.180	755	8×15 10×12.5	0.085 0.090	0.170 0.180	730 755	8×20 10×16	0.065 0.068	0.130 0.136	995 1,050	10×20	0.052	0.104	1,220	
820	8×15 10×12.5	0.085 0.090	0.170 0.180	730 755					10×20	0.052	0.104	1,220	10×25	0.045	0.090	1,440	
1,000	10×12.5	0.090	0.180	755	8×20 10×16	0.065 0.068	0.130 0.136	995 1,050	10×20	0.052	0.104	1,220	10×30 12.5×20	0.035 0.038	0.070 0.076	1,815 1,655	
1,200	8×20 10×16	0.065 0.068	0.130 0.136	955 1,050	10×20	0.052	0.104	1,220	10×25	0.045	0.090	1,440					
1,500	10×20	0.052	0.104	1,220	10×20 10×25	0.052 0.045	0.104 0.090	1,220 1,440	12.5×20 10×30	0.038 0.035	0.076 0.070	1,655 1,815	12.5×25 16×25	0.030 0.022	0.060 0.044	1,945 2,555	
1,800													12.5×30 16×20	0.025 0.029	0.050 0.058	2,310 2,205	
2,200	10×25 12.5×20	0.045 0.038	0.090 0.076	1,440 1,615	10×30 12.5×20	0.035 0.038	0.070 0.076	1,815 1,655	12.5×25	0.030	0.06	1,945	12.5×35 16×25 18×20	0.022 0.022 0.028	0.044 0.044 0.056	2,510 2,555 2,490	
2,700	10×30	0.035	0.070	1,815	12.5×25	0.030	0.060	1,945	12.5×30 16×20	0.025 0.029	0.05	2,310 2,205	16×25	0.022	0.044	2,555	
3,300	12.5×20	0.038	0.076	1,655	12.5×25	0.030	0.060	1,945	16×25	0.022	0.044	2,555	16×31.5 18×25	0.018 0.020	0.036 0.040	3,010 2,740	
3,900	12.5×25	0.030	0.060	1,945	12.5×35 16×20	0.022 0.029	0.044 0.058	2,510 2,205	16×25	0.022	0.044	2,555	16×35.5 18×31.5	0.016 0.016	0.032 0.032	3,150 3,635	
4,700	12.5×30 16×25	0.025 0.022	0.050 0.044	2,310 2,555	16×25	0.022	0.044	2,555	16×31.5 18×25	0.018 0.020	0.036 0.040	3,010 2,740	18×35.5	0.015	0.030	3,680	
5,600	12.5×35 16×20	0.022	0.044	2,510 2,205	16×25	0.022	0.044	2,555 2,490	16×35.5 18×31.5	0.016	0.032	3,150 3,635					
6,800	16×25 18×20	0.022	0.044	2,555 2,490	16×31.5 18×25	0.018 0.020	0.036 0.040	3,010 2,740	18×35.5	0.015	0.030	3,680	18×40	0.014	0.028	3,800	
8,200	16×31.5	0.018	0.036	3,010	16×35.5	0.016	0.032	3,150 3,635	18×35.5	0.015	0.030	3,680					
10,000	16×31.5 18×25	0.016 0.020	0.032 0.040	3,150 2,740	18×35.5	0.015	0.030	3,680	18×40	0.014	0.028	3,800					
12,000	18×31.5	0.016	0.032	3,635													
15,000	18×35.5	0.015	0.030	3,680	18×40	0.014	0.028	3,800									

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

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

Dimension and Permissible Ripple Current

Cap. (μF)	Rated Volt. V _{dc}	35V (1V)			50V (1H)			63V (1J)			100V (2A)							
		$\phi D \times L$	Impedance (Ω , max./100kHz)		$\phi D \times L$	Impedance (Ω , max./100kHz)		$\phi D \times L$	Impedance (Ω , max./100kHz)		$\phi D \times L$	Impedance (Ω , max./100kHz)		$\phi D \times L$	Impedance (Ω , max./100kHz)			
			20°C	-10°C		20°C	-10°C		20°C	-10°C		20°C	-10°C	20°C	-10°C			
2.2															5x11	9.8	19.6	44
3.3															5x11	6.6	13.2	58
4.7	5x11	0.6	1.2	180	5x11	2.3	4.6	90	5x11	4.7	9.4	68	5x11	4.6	9.2	74		
6.8									5x11	2.5	5.0	95	5x11	3.5	7.0	95		
10	5x11	0.6	1.2	180	5x11	1.4	2.8	120	5x11	2.1	4.2	110	6.3x11	1.8	3.6	130		
12									5x11	2.0	4.0	145						
15									6.3x11	1.2	2.4	160	8x11.5	0.83	1.66	180		
18					5x11	1.3	2.6	155					6.3x15	0.80	1.60	200		
22	5x11	0.6	1.2	180	5x11	1.2	2.4	170	6.3x11	0.71	1.42	250	8x11.5	0.68	1.36	230		
27	5x11	0.6	1.2	180														
33	5x11	0.6	1.2	180	6.3x11	0.43	0.86	300	6.3x11	0.71	1.42	250	8x15 10x12.5	0.45 0.46	0.90 0.92	360 320		
39									6.3x15	0.70	1.40	330						
47	6.3x11	0.25	0.5	290	6.3x11	0.43	0.86	300	8x11.5	0.342	0.684	405	10x16 8x20	0.37 0.37	0.74 0.74	420 420		
56	6.3x11	0.25	0.5	290	6.3x15	0.40	0.80	360										
68									8x11.5	0.342	0.684	405	10x20	0.30	0.60	490		
82	6.3x15	0.23	0.46	430	8x11.5	0.234	0.468	485					10x25	0.25	0.50	540		
100	8x11.5	0.117	0.234	555	8x11.5	0.234	0.468	485	10x12.5 8x15	0.256 0.230	0.512 0.460	535 535	12.5x20	0.18	0.36	580		
120					8x15 10x12.5	0.155 0.162	0.310 0.324	635 615	10x16	0.194	0.388	600						
150	8x11.5	0.117	0.234	555	10x12.5	0.162	0.324	615	10x16	0.194	0.388	660	12.5x25	0.13	0.26	710		
180					8x20 10x16	0.120 0.119	0.240 0.238	860 850	10x20 12.5x16	0.147 0.150	0.294 0.300	885 1,020	12.5x30 16x20	0.12 0.13	0.24 0.26	790 750		
220	8x15 10x12.5	0.085 0.090	0.17 0.18	730 755	10x16 10x20	0.119 0.090	0.238 0.180	850 1,030	10x20 10x25	0.147 0.130	0.294 0.260	885 1,050	16x25 18x20	0.10 0.11	0.20 0.22	890 850		
270					10x25	0.082	0.164	1,200	16x16	0.090	0.180	1,410						
330	8x20 10x16	0.065 0.068	0.130 0.136	995 1,050	10x20 10x30	0.090 0.060	0.180 0.120	1,030 1,610	12.5x20	0.085	0.170	1,285	16x25	0.090	0.180	1,080		
390	10x20	0.052	0.104	1,220	12.5x20	0.063	0.126	1,480	12.5x25 18x16	0.070 0.086	0.140 0.172	1,720 1,690	18x25	0.083	0.166	1,260		
470	10x20	0.052	0.104	1,220	12.5x20	0.060	0.120	1,500	12.5x25 12.5x30 16x20	0.070 0.055 0.059	0.140 0.110 0.118	1,720 2,090 1,765	16x31.5	0.076	0.152	1,310		
560	10x25	0.045	0.090	1,440	12.5x25	0.050	0.100	1,832	16x25	0.050	0.100	2,160	18x31.5 18x35.5	0.068 0.064	0.136 0.128	1,370 1,410		
680	10x30 12.5x20	0.035 0.038	0.070 0.076	1,815 1,655	12.5x25 16x20	0.050 0.048	0.100 0.096	1,832 1,835	12.5x35 18x20	0.047 0.055	0.094 0.110	2,265 2,290						
820					12.5x35 18x20	0.034 0.042	0.068 0.084	2,285 2,200	16x31.5 18x25	0.043 0.043	0.086 0.086	2,670 2,585	18x40	0.047	0.094	1,520		
1,000	12.5x25	0.030	0.060	1,945	16x25	0.034	0.068	2,235	16x31.5 16x35.5	0.043 0.036	0.086 0.072	2,670 2,770						
1,200	12.5x30 16x20	0.025 0.029	0.050 0.058	2,310 2,205	16x31.5 18x25	0.028 0.029	0.056 0.058	2,700 2,610	18x31.5	0.032	0.064	2,950						
1,500	12.5x35	0.022	0.044	2,510	16x31.5	0.028	0.056	2,700										
1,800	16x25	0.022	0.044	2,555	16x35.5	0.025	0.050	2,790	18x35.5	0.030	0.060	3,095						
2,200	16x31.5 18x25	0.018 0.020	0.036 0.040	3,010 2,740	18x35.5	0.023	0.046	3,100	18x40	0.028	0.056	3,200						
2,700	16x35.5	0.016	0.032	3,150														
3,300	18x35.5	0.015	0.030	3,680														
4,700	18x40	0.014	0.028	3,800														

Part Numbering System

RXW Series	470 μF	$\pm 20\%$	6.3V	Bulk Package	Gas Type	8 $\phi \times 11.5L$	Pb-free and PET sleeve
RXW	471	M	0J	BK	-	0811	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Sleeve type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помошь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помошь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.