



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

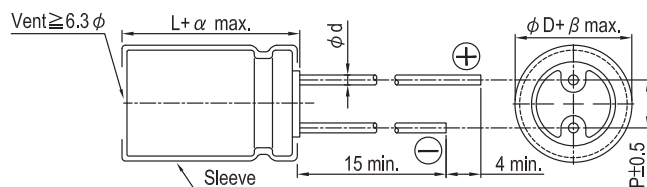


Sleeve & Marking Color: Black & Golden

Specifications

Items	Performance																																						
Category Temperature Range	6.3 ~ 63V					100V																																	
	-55℃ ~ +105℃					-40℃ ~ +105℃																																	
Capacitance Tolerance	± 20 % (at 120Hz, 20℃)																																						
Leakage Current (at 20℃)	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℃)	<table><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>									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												
	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																														
When the capacitance exceeds 1000μF, 0.02 shall be added every 1000μF increase.																																							
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	100																													
	Impedance Ratio	Z(-55℃/-40℃) / Z(+20℃)	3	3	3	3	3	3	3	3																													
Endurance	Test Time		4,000 Hrs for ϕ D ≤ 6.3 mm; 5,000 Hrs for ϕ D = 8 mm; 6,000 Hrs for ϕ D = 10 mm; 7,000 Hrs for ϕ D ≥ 12.5 mm																																				
	Capacitance Change		Within ±25% of initial value																																				
	Tanδ		Less than 200% of specified value																																				
	Leakage Current		Within specified value																																				
	* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 4,000 ~ 7,000 hours at 105℃.																																						
Shelf Life Test	Test Time		1,000 Hrs																																				
	Capacitance Change		Within ±25% of initial value																																				
	Tanδ		Less than 200% of specified value																																				
	Leakage Current		Within specified value																																				
	* The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.																																						
Ripple Current and Frequency Multipliers	<table><tr><td>Freq.(Hz) Cap.(μF)</td><td>120</td><td>1k</td><td>10k</td><td>100k up</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) Cap.(μF)	120	1k	10k	100k up	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
	Freq.(Hz) Cap.(μF)	120	1k	10k	100k up																																		
	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																																		

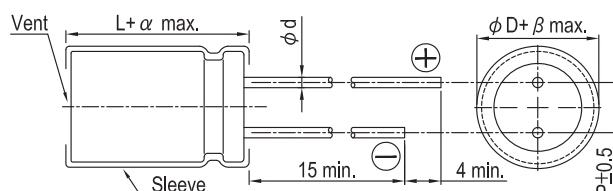
Diagram of Dimensions



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 $\geq$ 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)			
	ϕ D×L	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	ϕ D×L	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	ϕ D×L	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz	ϕ D×L	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C) 100k Hz
		20°C	-10°C	20°C		-10°C	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 6.3×15	0.25 0.23	0.5 0.46	290 430	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 0.058	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 12.5×30	0.030 0.025	0.060 0.050	1,945 2,310	16×25 12.5×35	0.022 0.022	0.044 0.044	2,555 2,510	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 18×20	0.022 0.028	0.044 0.056	2,555 2,490	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 0.029	0.044 0.058	2,510 2,205	16×25 18×20	0.022 0.028	0.044 0.056	2,555 2,490	16×35.5 18×31.5	0.016 0.016	0.032 0.032	3,150 3,635				
6,800	16×25 18×20	0.022 0.028	0.044 0.056	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 18×31.5	0.016 0.016	0.032 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 and Permissible Ripple Current

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

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

Cap. (μF)	Contents	35V (1V)			50V (1H)			63V (1J)			100V (2A)		
		$\phi D \times L$	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C)	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C)	Impedance (Ω, max./100kHz)		Ripple Current (mA/rms, 105°C)	Impedance (Ω, max./100kHz)	
			20°C	-10°C		20°C	-10°C		20°C	-10°C		20°C	-10°C
2.2												5×11	9.8
3.3												5×11	6.6
4.7	5×11	0.6	1.2	180	5×11	2.3	4.6	90	5×11	4.7	9.4	5×11	4.6
6.8									5×11	2.5	5.0	5×11	3.5
10	5×11	0.6	1.2	180	5×11	1.4	2.8	120	5×11	2.1	4.2	6.3×11	1.8
12									5×11	2.0	4.0		
15									6.3×11	1.2	2.4	160	
18					5×11	1.3	2.6	155				6.3×15	0.80
22	5×11	0.6	1.2	180	5×11	1.2	2.4	170	6.3×11	0.71	1.42	250	0.68
27	5×11	0.6	1.2	180									
33	5×11	0.6	1.2	180	6.3×11	0.43	0.86	300	6.3×11	0.71	1.42	250	0.45
39									6.3×15	0.70	1.40	330	0.46
47	6.3×11	0.25	0.5	290	6.3×11	0.43	0.86	300	8×11.5	0.342	0.684	405	0.37
56	6.3×11	0.25	0.5	290	6.3×15	0.40	0.80	360					0.37
68									8×11.5	0.342	0.684	405	0.30
82	6.3×15	0.23	0.46	430	8×11.5	0.234	0.468	485					0.25
100	8×11.5	0.117	0.234	555	8×11.5	0.234	0.468	485	10×12.5	0.256	0.512	535	0.18
120					8×15	0.155	0.310	635	8×15	0.230	0.460	535	0.36
150	8×11.5	0.117	0.234	555	10×12.5	0.162	0.324	615	10×16	0.194	0.388	600	
180					8×20	0.120	0.240	860	10×20	0.147	0.294	885	0.13
220	8×15	0.085	0.17	730	10×16	0.119	0.238	850	12.5×16	0.150	0.300	1,020	0.26
270	10×12.5	0.090	0.18	755	10×20	0.090	0.180	1,030	10×25	0.130	0.260	1,050	0.20
330	8×20	0.065	0.130	995	10×25	0.082	0.164	1,200	16×16	0.090	0.180	1,410	0.11
390	10×16	0.068	0.136	1,050	10×30	0.090	0.180	1,030	12.5×20	0.085	0.170	1,285	0.090
470	10×20	0.052	0.104	1,220	10×30	0.060	0.120	1,610	12.5×25	0.070	0.140	1,720	0.166
560	10×25	0.045	0.090	1,440	12.5×20	0.063	0.126	1,480	18×16	0.086	0.172	1,690	0.083
680	10×30	0.035	0.070	1,815	12.5×25	0.050	0.100	1,832	12.5×25	0.070	0.140	1,720	0.076
820	12.5×20	0.038	0.076	1,655	16×20	0.048	0.096	1,835	12.5×35	0.047	0.094	2,265	0.152
1,000					12.5×35	0.034	0.068	2,285	18×20	0.055	0.110	2,290	
1,200	12.5×25	0.030	0.060	1,945	18×20	0.042	0.084	2,200	16×31.5	0.043	0.086	2,670	0.047
1,500					16×25	0.034	0.068	2,235	18×25	0.043	0.086	2,585	0.094
1,800	16×31.5	0.025	0.050	2,310	16×35.5	0.025	0.050	2,790	16×31.5	0.043	0.086	2,670	
2,200	16×20	0.029	0.058	2,205	16×31.5	0.028	0.056	2,700	16×35.5	0.036	0.072	2,770	
2,700	16×25	0.022	0.044	2,510	18×25	0.029	0.058	2,610	18×31.5	0.032	0.064	2,950	
3,300	16×31.5	0.018	0.036	3,010	16×31.5	0.028	0.056	2,700	18×35.5	0.030	0.060	3,095	
4,700	18×25	0.020	0.040	2,490	16×35.5	0.025	0.050	2,790					
	18×31.5	0.016	0.032	3,150	18×31.5	0.025	0.050	2,790					
	18×35.5	0.016	0.032	3,635									
	18×40	0.015	0.030	3,680									
		0.014	0.028	3,800									

Part Numbering System

RXW Series	470μF	±20%	6.3V	Bulk Package	Gas Type	8 ϕ × 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, помощь 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 помощь 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

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