



RXK Series

Features

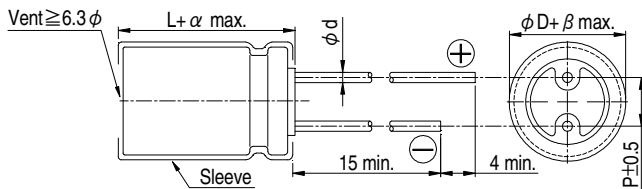
- 105°C, 2,000 ~ 5,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS compliance



Specifications

Items	Performance																																										
Category Temperature Range	-55°C ~ +105°C																																										
Capacitance Tolerance	±20% (at 120 Hz, 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"> <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>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> </tr> </tbody> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	63	Tanδ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09																										
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Low Temperature Characteristics (at 120 Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <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>Impedance Ratio 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 and 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>≤ 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 ≤</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	≤ 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 ≤	0.80	0.90	0.95	0.98	1.00	1.00
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	60 (50)	120	500	1k	10k	100k																																					
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Diagram of Dimensions

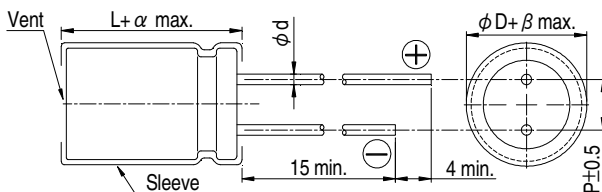


Lead Spacing and Diameter

Unit: mm

φ D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5		0.6			0.8	
α	L < 20: 1.5, L ≥ 20: 2.0						
β	0.5						

The case size of 16×20 is suitable for below diagram:





Dimension: $\phi D \times L$ (mm)
 Impedance: Ω / at 100k Hz
 Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Rated Volt. (Vdc) Contents Cap. (μ F)	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	2,390 2,440 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 1,440	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	2,394 2,610	2,660 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 2,448	3,160 2,720
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										

Dimension: $\phi D \times L(\text{mm})$
 Impedance: Ω / at 100k Hz
 Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Rated Volt. (V _{DC}) Cap. (μF)	Contents	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												5x11	1.1	3.3	72	130
22												5x11	1.1	3.3	83	150
27						5x11	0.72	1.8	91	165						
33						5x11	0.72	1.8	99	180						
39	5x11	0.72	1.8	116	165						6.3x11	0.56	1.6	154	220	
47	5x11	0.72	1.8	126	180						6.3x11	0.56	1.6	161	230	
56						6.3x11	0.38	0.95	179	255	6.3x15	0.41	1.2	217	310	
68						6.3x11	0.38	0.95	196	280	8x11.5	0.29	0.84	238	340	
82	6.3x11	0.38	0.95	179	255	6.3x15	0.27	0.68	231	330	8x11.5	0.29	0.84	249	355	
											8x15	0.25	0.75	329	470	
											10x12.5	0.16	0.40	336	480	
100	6.3x11	0.38	0.95	196	280						10x12.5	0.16	0.40	371	530	
120	6.3x15	0.27	0.68	231	330	8x11.5	0.20	0.50	291	415	8x15	0.25	0.75	392	560	
						10x12.5	0.12	0.30	438	625	8x20	0.18	0.52	427	610	
											10x16	0.12	0.30	529	755	
150	8x11.5	0.20	0.50	291	415	8x11.5	0.20	0.50	315	450	10x16	0.12	0.30	588	840	
						10x12.5	0.12	0.30	473	675						
180	8x11.5	0.20	0.50	315	450	8x15	0.16	0.40	347	495	8x20	0.18	0.52	525	750	
	10x12.5	0.12	0.30	438	625						10x20	0.088	0.22	662	945	
220	8x15	0.16	0.40	347	495	8x15	0.16	0.40	413	590	10x20	0.088	0.22	728	1,040	
	10x12.5	0.12	0.30	473	675	8x20	0.11	0.28	448	640	10x25	0.068	0.17	805	1,150	
						10x16	0.084	0.21	578	825						
270						8x20	0.11	0.28	490	700	10x25	0.068	0.17	896	1,280	
						10x16	0.084	0.21	637	910						
330	8x15	0.16	0.40	413	590	10x20	0.062	0.16	728	1,040	10x30	0.059	0.15	882	1,260	
	8x20	0.11	0.28	448	640						12.5x20	0.059	0.15	833	1,190	
	10x16	0.084	0.21	578	825											
390	8x20	0.11	0.28	560	700	10x20	0.062	0.16	904	1,130	12.5x20	0.059	0.15	952	1,190	
	10x16	0.084	0.21	728	910	10x25	0.052	0.13	1,008	1,260						
470	10x20	0.062	0.16	832	1,040	10x25	0.052	0.13	1,112	1,390	10x30	0.059	0.15	1,176	1,470	
											12.5x25	0.045	0.11	1,192	1,490	
560	10x20	0.062	0.16	904	1,130	10x30	0.044	0.11	1,152	1,440	12.5x25	0.045	0.11	1,304	1,630	
	10x25	0.052	0.13	1,008	1,260	12.5x20	0.046	0.12	1,072	1,340	12.5x30	0.039	0.098	1,376	1,720	
680	10x25	0.052	0.13	1,112	1,390	10x30	0.044	0.11	1,256	1,570	12.5x30	0.039	0.098	1,520	1,800	
						12.5x20	0.046	0.12	1,160	1,450	12.5x35	0.033	0.083	1,512	1,900	
						12.5x25	0.034	0.085	1,352	1,690	16x20	0.048	0.120	1,248	1,560	
820	10x30	0.044	0.11	1,152	1,440	12.5x25	0.034	0.085	1,448	1,810	12.5x35	0.033	0.083	1,624	2,030	
	12.5x20	0.046	0.12	1,072	1,340						12.5x40	0.029	0.073	1,656	2,070	
											16x25	0.033	0.083	1,504	1,880	
1,000	10x30	0.044	0.11	1,256	1,570	12.5x30	0.030	0.075	1,560	1,950	12.5x40	0.029	0.073	1,800	2,250	
	12.5x20	0.046	0.12	1,160	1,450	16x20	0.035	0.087	1,376	1,720	16x25	0.033	0.083	1,664	2,080	
	12.5x25	0.034	0.085	1,352	1,690						16x31.5	0.029	0.073	1,720	2,150	
1,200	12.5x25	0.034	0.085	1,629	1,810	12.5x30	0.030	0.075	1,917	2,130	16x31.5	0.029	0.073	2,088	2,320	
						12.5x35	0.027	0.068	1,980	2,200	16x35.5	0.025	0.063	2,115	2,350	
						16x25	0.028	0.070	1,863	2,070						
1,500	12.5x30	0.030	0.075	1,755	1,950	12.5x35	0.027	0.068	2,151	2,390	16x35.5	0.025	0.063	2,160	2,400	
	16x20	0.035	0.087	1,539	1,710	12.5x40	0.024	0.060	2,196	2,440	16x40	0.021	0.063	2,336	2,595	
						16x25	0.028	0.070	2,025	2,250						
1,800	12.5x30	0.030	0.075	1,917	2,130	12.5x40	0.024	0.060	2,358	2,620	16x40	0.021	0.063	2,466	2,740	
	12.5x35	0.027	0.068	1,980	2,200	16x31.5	0.025	0.063	2,115	2,350	18x35.5	0.023	0.058	2,286	2,540	
	16x25	0.028	0.070	1,863	2,070											
2,200	12.5x35	0.027	0.068	2,151	2,390	16x31.5	0.025	0.063	2,295	2,550	18x35.5	0.023	0.058	2,349	2,610	
	12.5x40	0.024	0.060	2,196	2,440	16x35.5	0.022	0.055	2,295	2,550	18x40	0.020	0.050	2,385	2,650	
	16x25	0.028	0.070	2,025	2,250											
2,700	16x31.5	0.025	0.063	2,115	2,350	16x35.5	0.022	0.055	2,394	2,660						
						16x40	0.018	0.045	2,610	2,900						
						18x35.5	0.021	0.053	2,448	2,720						
3,300	16x31.5	0.025	0.063	2,295	2,550	18x35.5	0.021	0.053	2,601	2,890						
	16x35.5	0.022	0.055	2,295	2,550	18x40	0.017	0.043	2,709	3,010						
3,900	16x35.5	0.022	0.055	2,394	2,660											
	16x40	0.018	0.045	2,610	2,900	18x40	0.017	0.043	2,934	3,260						
	18x35.5	0.021	0.053	2,448	2,720											
4,700	18x35.5	0.021	0.053	2,601	2,890											
	18x40	0.017	0.043	2,709	3,010											
5,600	18x40	0.017	0.043	2,934	3,260											



Dimension: $\phi D \times L$ (mm)
 Impedance: Ω / at 100k Hz
 Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Cap. (μ F)	Contents	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	1,280	
	12.5x30	0.068	0.170	1,024	1,360	
470	12.5x30	0.068	0.170	1,120	1,360	
	12.5x35	0.063	0.158	1,112	1,400	
	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	12.5x40	0.051	0.128	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	1,576	1,970	
	18x35.5	0.040	0.100	1,688	2,110	
1,500	18x35.5	0.040	0.100	2,169	2,410	

Part Numbering System

RXK Series 470 μ F \pm 20% 6.3V Bulk Package Gas Type 8 ϕ x 11.5L Pb-free and PET sleeve

RXK **471** **M** **0J** **BK** - **0811**

Series Name Capacitance Capacitance Tolerance Rated Voltage Lead Configuration and 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.

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