

RZW Series

Features

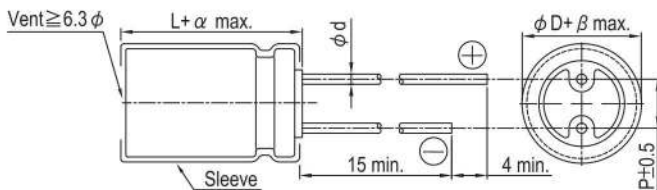
- 105°C, 4,000 ~ 10,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHs compliance
- AEC-Q200 Parts Available: Replace "S" Suffix with "KS" or "LS" Suffix



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 1000μF, 0.02 shall be added every 1000μF 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>3</td> <td>3</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)	3	3	3	3	3	3	3																
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Diagram of Dimensions

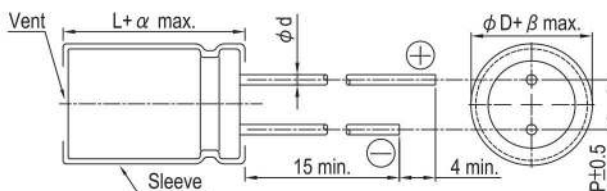


Lead Spacing and Diameter

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 12.5×16, 16×16, 16×20, 18×16, 18×20 and 18×25 are 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. (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, 105°C) 100k Hz
		20°C	-10°C			20°C	-10°C			20°C	-10°C			20°C	-10°C	
47													5×11	0.58	1.16	210
56									5×11	0.58	1.16	210				
100					5×11	0.58	1.16	210					6.3×11	0.22	0.44	340
120									6.3×11	0.22	0.44	340				
150	5×11	0.58	1.16	210												
220					6.3×11	0.22	0.44	340	8×11.5	0.11	0.22	640	8×11.5	0.11	0.22	640
330	6.3×11	0.22	0.44	340					8×11.5	0.11	0.22	640	8×15	0.083	0.166	840
470					8×11.5	0.11	0.22	640	8×15	0.083	0.166	840	8×20	0.064	0.128	1,050
680	8×11.5	0.11	0.22	640	8×15	0.083	0.166	840	10×12.5	0.080	0.160	865	10×16	0.060	0.120	1,210
820	10×12.5	0.080	0.16	865	10×12.5	0.080	0.160	865	8×20	0.064	0.128	1,050	10×20	0.046	0.092	1,400
1,000	8×15	0.087	0.174	840	10×20	0.046	0.092	1,400	10×16	0.060	0.120	1,210	10×25	0.042	0.084	1,650
1,200	8×20	0.069	0.138	1,050	10×20	0.046	0.092	1,400	12.5×16	0.049	0.098	1,450	12.5×20	0.035	0.070	1,900
1,500	10×20	0.046	0.092	1,400	10×20	0.046	0.092	1,400	16×16	0.042	0.084	1,650	16×16	0.042	0.084	1,940
1,800	12.5×16	0.045	0.090	1,450												
2,200	10×25	0.042	0.084	1,650	10×30	0.031	0.062	1,910	12.5×25	0.027	0.054	2,230	12.5×35	0.020	0.040	2,880
2,700	10×30	0.031	0.062	1,910	12.5×20	0.035	0.070	1,900	16×16	0.042	0.084	1,650	18×20	0.026	0.052	2,860
3,300	12.5×20	0.035	0.070	1,900	16×16	0.042	0.084	1,940	18×16	0.043	0.086	2,210	12.5×40	0.017	0.034	3,350
3,900	12.5×25	0.027	0.054	2,230	18×16	0.043	0.086	2,210	12.5×30	0.024	0.048	2,650	16×25	0.021	0.042	2,930
4,700	12.5×30	0.024	0.048	2,650	12.5×30	0.024	0.048	2,650	16×20	0.026	0.052	2,860	18×25	0.019	0.038	3,140
5,600	12.5×35	0.020	0.040	2,880	12.5×35	0.020	0.040	2,880	16×31.5	0.017	0.034	3,450	16×35.5	0.015	0.030	3,610
6,800	16×25	0.021	0.042	2,930	16×20	0.027	0.054	2,530	18×25	0.019	0.038	3,140	18×31.5	0.015	0.030	4,170
8,200	18×20	0.026	0.052	2,860	16×35.5	0.015	0.030	3,610	16×40	0.013	0.026	4,080	18×35.5	0.014	0.028	4,220
10,000	16×40	0.013	0.026	4,080	18×31.5	0.015	0.030	4,170	18×25	0.019	0.038	3,140	18×40	0.012	0.024	4,280
12,000	18×31.5	0.015	0.030	4,170	16×40	0.013	0.026	4,080	18×35.5	0.014	0.028	4,220				
15,000	18×35.5	0.014	0.028	4,220	18×35.5	0.014	0.028	4,220								
18,000	18×40	0.012	0.024	4,280												

Radial

