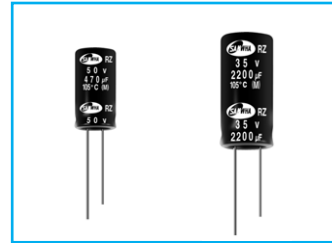


RZ Extremely Low Impedance Series

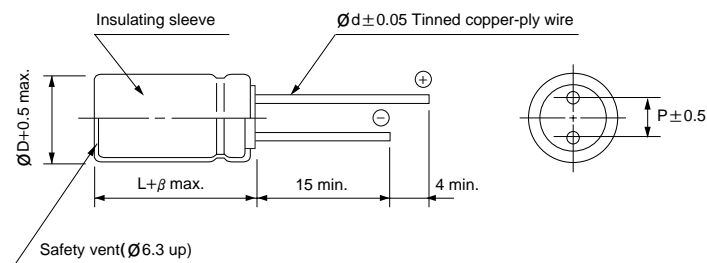


- Extremely low impedance at high frequency
- High reliability withstanding 5000 hours load life at 105°C (2000/3000 hours for smaller case sizes as specified below)
- Ideally suited for use in switching power supplies
- Complied to the RoHS directive

Item	Characteristics																
Operating temperature range	-55 ~ +105°C																
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes) I = 0.03CV or 4μA whichever is greater (after 1 minute)																
Capacitance tolerance	±20% at 120Hz, 20°C																
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000μF : tanδ increases by 0.02 for each 1000μF from below value <table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tanδ</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>0.08</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.08
WV	6.3	10	16	25	35	50	63										
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.08										
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</td> <td>6.3, 10</td> <td>16~35</td> <td>50, 63</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> </tr> </table>	WV	6.3, 10	16~35	50, 63	Z-55°C/Z+20°C	4	3	2								
WV	6.3, 10	16~35	50, 63														
Z-55°C/Z+20°C	4	3	2														
Load life (after application of the rated voltage for 5000 hours at 105°C)	<table border="1"> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tanδ</td> <td>Less than 200% of specified value</td> </tr> </table> <p>Ø5, 6.3 products are for 2000 hours, Ø8 products are for 3000 hours</p>	Leakage current	Less than specified value	Capacitance change	Within ±20% of initial value	tanδ	Less than 200% of specified value										
Leakage current	Less than specified value																
Capacitance change	Within ±20% of initial value																
tanδ	Less than 200% of specified value																
Shelf life (after leaving capacitors under no load at 105°C for 1000 hours)	<table border="1"> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tanδ</td> <td>Less than 150% of specified value</td> </tr> </table>	Leakage current	Less than specified value	Capacitance change	Within ±20% of initial value	tanδ	Less than 150% of specified value										
Leakage current	Less than specified value																
Capacitance change	Within ±20% of initial value																
tanδ	Less than 150% of specified value																

● DRAWING

Unit : mm



ØD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.5			2.0			

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF	Frequency(Hz)	120	1k	10k	100k≤
~ 33		0.40	0.65	0.82	1.00
39 ~ 270		0.50	0.70	0.84	1.00
330 ~ 680		0.55	0.75	0.86	1.00
820 ~ 1800		0.60	0.80	0.88	1.00
2200 ~ 15000		0.70	0.85	0.90	1.00



RZ series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	Item	6.3				10				16				25			
		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)		
			20°C	105°C	105°C	105°C		20°C	105°C	105°C	105°C		20°C	105°C	105°C	105°C	
33																	
47																	
68					5×11	0.80		97	155	6.3×11	0.50	135	220	6.3×11	0.36	160	260
100		5×11	0.85	99	150	6.3×11	0.55	135	210	6.3×11	0.35	175	265	8×11.5	0.24	254	383
150		6.3×11	0.49	155	225	6.3×11	0.35	185	265	8×11.5	0.23	270	388	8×11.5	0.16	320	460
220		6.3×11	0.30	205	285	8×11.5	0.24	283	387	8×11.5	0.16	335	460	10×12.5	0.13	435	600
330		8×11.5	0.20	223	292	8×11.5	0.16	350	460	10×12.5	0.12	480	625	10×16	0.095	575	750
470		10×12.5	0.14	455	575	10×12.5	0.13	475	600	10×16	0.09	615	770	10×20	0.065	810	1020
680		10×16	0.11	580	700	10×16	0.09	635	770	10×20	0.065	845	1020	12.5×20	0.046	1160	1392
1000		10×20	0.075	820	950	10×20	0.060	915	1060	12.5×20	0.047	1206	1411	12.5×25	0.036	1430	1660
1500		10×25	0.055	1090	1220	12.5×20	0.045	1266	1417	12.5×25	0.036	1490	1660	16×20	0.034	1590	1770
2200		12.5×20	0.043	1296	1438	12.5×25	0.034	1530	1710	16×20	0.033	1620	1800	16×25	0.028	1848	2051
3300		12.5×25	0.034	1530	1710	16×20	0.031	1660	1850	16×25	0.027	1888	2095	16×35.5	0.020	2410	2680
4700		16×25	0.032	1728	1935	16×31.5	0.023	2170	2420	16×35.5	0.020	2410	2680	18×40	0.018	2660	2960
6800		16×31.5	0.024	2130	2370	16×35.5	0.020	2410	2680	18×35.5	0.018	2610	2900				
10000		16×40	0.020	2470	2750	18×40	0.017	2730	3040								
15000		18×40	0.018	2660	2960												

WV	Item	35				50				63						
		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)		ØD×L (mm)	Impedance (Ω)max.		Ripple current (mA rms)	
			20°C	105°C	105°C	105°C		20°C	105°C	105°C	105°C		20°C	105°C	105°C	105°C
1.0						5×11	4.0		18	36						
1.5						5×11	3.8		22	45						
2.2						5×11	3.5		27	54						
3.3						5×11	3.0		33	66						
4.7						5×11	2.2		40	81						
6.8						5×11	1.8		45	91						
10						5×11	1.4		57	115	5×11	1.06		67	135	
15						5×11	0.93		72	145	6.3×11	0.73		92	185	
22		5×11	0.75	85	160	6.3×11	0.65		100	195	6.3×11	0.52		110	215	
33		6.3×11	0.49	125	225	6.3×11	0.43		135	240	8×11.5	0.35		179	320	
47		6.3×11	0.34	160	270	8×11.5	0.30		204	344	8×11.5	0.25		215	365	
68		8×11.5	0.24	239	384	8×11.5	0.20		255	410	10×12.5	0.19		310	495	
100		8×11.5	0.16	305	460	10×16	0.16		385	581	10×20	0.12		495	750	
150		10×12.5	0.12	435	625	10×20	0.10		570	820	10×25	0.09		665	950	
220		10×16	0.09	560	770	10×25	0.075		760	1040	12.5×20	0.065		835	1140	
330		10×20	0.060	810	1060	12.5×20	0.055		978	1281	12.5×25	0.049		1090	1420	
470		12.5×20	0.046	1112	1401	12.5×25	0.044		1190	1500	16×25	0.042		1350	1700	
680		12.5×25	0.036	1370	1660	16×20	0.040		1350	1630	16×31.5	0.032		1700	2050	
1000		16×20	0.034	1330	1770	16×31.5	0.030		1830	2120	18×35.5	0.029		1970	2280	
1500		16×31.5	0.028	2149	2385	16×40	0.026		2170	2410						
2200		16×35.5	0.020	2410	2680	18×40	0.024		2300	2560						
3300		18×40	0.017	2730	3040											