

RZ Extremely Low Impedance Series



Long Life

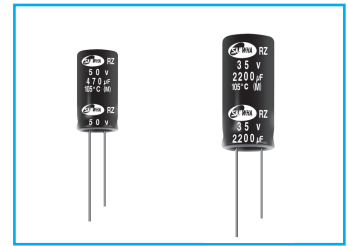


Low Impedance



Solvent Proof

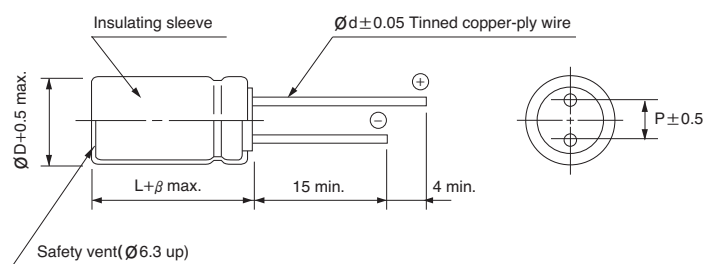
- Extremely low impedance at high frequency
- High reliability withstanding 5000 hours load life at 105°C (2000/3000 hours for smaller case sizes as specified below)
- Ideally suited for use in switching power supplies
- Complied to the RoHS directive



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							
	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)	WV		6.3, 10		16~35		50, 63	
	Z-55°C/Z+20°C		4		3		2	
Load life	After an application of DC bias voltage plus the rated AC ripple current for 5000 hours at 105°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.							
	Leakage current				Less than specified value			
	Capacitance change				Within ±20% of initial value			
	tanδ				Less than 200% of specified value			
Shelf life (at 105°C)	Ø5, 6.3 products are for 2000 hours, Ø8 products are for 3000 hours							
	After leaving capacitors under no load at 105°C for 1000 hours. The measurement shall be performed at 20°C by the KS C 6503 clause 5.1.							
	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	120Hz	1kHz	10kHz	50kHz	100kHz ≤
~ 33	0.40	0.65	0.82	0.91	1.00
47 ~ 220	0.50	0.70	0.84	0.92	1.00
330 ~ 680	0.55	0.75	0.86	0.93	1.00
1000 ~ 1500	0.60	0.80	0.88	0.94	1.00
2200 ~ 15000	0.70	0.85	0.90	0.95	1.00

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RZ series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	6.3			10			16			25		
	ØD×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
33										5×11	0.80	155
47							5×11	0.80	155	6.3×11	0.55	210
68				5×11	0.80	155	6.3×11	0.50	220	6.3×11	0.36	260
100	5×11	0.85	150	6.3×11	0.55	210	6.3×11	0.35	265	8×11.5	0.24	383
150	6.3×11	0.49	225	6.3×11	0.35	265	8×11.5	0.23	388	8×11.5	0.16	460
220	6.3×11	0.30	285	8×11.5	0.24	387	8×11.5	0.16	460	10×12.5	0.13	600
330	8×11.5	0.20	292	8×11.5	0.16	460	10×12.5	0.12	625	10×16	0.095	750
470	10×12.5	0.14	575	10×12.5	0.13	600	10×16	0.09	770	10×20	0.065	1020
680	10×16	0.11	700	10×16	0.09	770	10×20	0.065	1020	12.5×20	0.046	1392
1000	10×20	0.075	950	10×20	0.060	1060	12.5×20	0.047	1411	12.5×25	0.036	1660
1500	10×25	0.055	1220	12.5×20	0.045	1417	12.5×25	0.036	1660	16×20	0.034	1770
2200	12.5×20	0.043	1438	12.5×25	0.034	1710	16×20	0.033	1800	16×25	0.028	2051
3300	12.5×25	0.034	1710	16×20	0.031	1850	16×25	0.027	2095	16×35.5	0.020	2680
4700	16×25	0.032	1935	16×31.5	0.023	2420	16×35.5	0.020	2680	18×40	0.018	2960
6800	16×31.5	0.024	2370	16×35.5	0.020	2680	18×35.5	0.018	2900			
10000	16×40	0.020	2750	18×40	0.017	3040						
15000	18×40	0.018	2960									

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