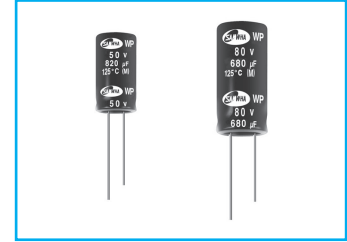


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

WP 125°C, Low ESR, Long Life Series

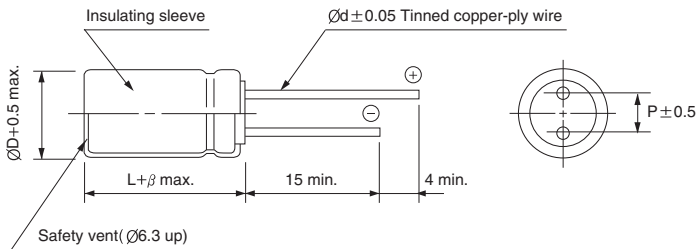
- Downsize and long life
- Low ESR at -40°C
- Endurance with ripple current : 5000 hours at 125°C
- Complied to the RoHS directive



Item	Characteristics				
Operating temperature range	-40 ~ +125°C				
Leakage current max.	I = 0.01CV or 3µA whichever is greater (after 2 minutes)				
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.				
	Rated Voitafe(V)	35	50	80	100
	tanδ	0.12	0.10	0.10	0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV	35	50	80	100
	Z-25°C/Z+20°C	2	2	2	2
	Z-40°C/Z+20°C	4	4	4	4
Load life (after application of the rated voltage for 5000 hours at 125°C)	Leakage current	Less than specified value			
	Capacitance change	Within ±30% of initial value			
	tanδ	Less than 300% of specified value			
Shelf life (at 125°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4				

● DRAWING

Unit : mm



ØD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Ød	0.6	0.6	0.8	0.8
β	1.5	1.5	2.0	

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
270 ~ 560	0.50	0.85	0.95	0.99	1.00
620 ~ 1800	0.60	0.90	0.95	0.99	1.00
2200 ~ 3900	0.75	0.90	0.95	0.99	1.00
4700 ~	0.85	0.95	0.98	0.99	1.00

WP series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	35			50		
	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz
470				12.5 × 20	0.065	1500
560	10 × 20	0.070	1700	12.5 × 25	0.060	1700
680	12.5 × 20	0.044	1820	12.5 × 25	0.048	1900
				16 × 20	0.043	2040
820	12.5 × 25	0.042	2100	12.5 × 25	0.043	2150
				12.5 × 30	0.041	2150
1000	12.5 × 25	0.033	2400	16 × 25	0.031	2620
				18 × 20	0.039	2240
1200	12.5 × 30	0.029	2560	16 × 31.5	0.027	2940
	16 × 20	0.034	2280	18 × 25	0.029	2750
1500	18 × 20	0.032	2490	16 × 35.5	0.023	3300
1800	16 × 25	0.026	3100	18 × 31.5	0.026	3140
2200	16 × 31.5	0.023	3160	16 × 40	0.020	3720
	18 × 25	0.024	3200	18 × 35.5	0.022	3510
2700	16 × 35.5	0.020	3590	18 × 40	0.018	3940
	18 × 31.5	0.022	3390			
3300	16 × 40	0.017	4300			
	18 × 35.5	0.019	4200			
4700	18 × 40	0.016	4600			

WV Item μF	80			100		
	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz
270				18 × 20	0.091	1690
300				16 × 25	0.079	1990
330	12.5 × 30	0.085	1790	16 × 31.5	0.065	2200
	16 × 20	0.085	1790			
470	16 × 25	0.061	2140	16 × 35.5	0.056	2500
	12.5 × 30	0.10	2140			
560	18 × 20	0.07	1910	16 × 40	0.046	2700
	16 × 31.5	0.053	2330			
680	18 × 25	0.049	2280	18 × 40	0.039	2880
	16 × 25	0.045	2300			
820	16 × 35.5	0.044	2580			
	16 × 40	0.036	2900			
1200	18 × 35.5	0.035	2890			
	18 × 40	0.030	3210			

MINIATURE TYPES