

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

WF High ripple current, Extremely Low Impedance Series

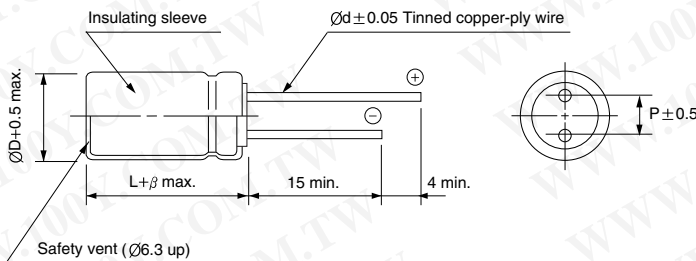
- Operating temperature range of $-40 \sim +105^{\circ}\text{C}$
- Extremely low impedance at high frequency
- High reliability withstanding 10000 hours load life at 105°C (5000 / 7000 hours for smaller case size as specified below)
- Complied to the RoHS directive



Item	Characteristics																		
Operating temperature range	$-40 \sim +105^{\circ}\text{C}$																		
Leakage current max.	$I = 0.03\text{CV}$ or $3\mu\text{A}$ whichever is greater (after 2 minutes)																		
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C																		
Dissipation factor max. (at 120Hz, 20°C)	<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> <td>100</td> </tr> <tr> <td>$\tan\delta$</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> <td>0.08</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	100	$\tan\delta$	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	WV	6.3	10	16	25	35	50	63	100										
$\tan\delta$	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08											
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25 ~ 100</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>	WV	6.3	10	16	25 ~ 100	Z- 40°C /Z+ 20°C	8	6	4	3								
WV	6.3	10	16	25 ~ 100															
Z- 40°C /Z+ 20°C	8	6	4	3															
Load life (after application of the rated voltage for 10000 hours at 105°C)	Leakage current	Less than specified value																	
	Capacitance change	Within $\pm 25\%$ of initial value																	
	$\tan\delta$	Less than 200% of specified value																	
	<table border="1"> <tr> <td>$\varnothing\text{D}$</td> <td>$\varnothing\text{D} = 5, 6.3$</td> <td>$\varnothing\text{D} = 8, 10$</td> <td>$\varnothing\text{D} \geq 12.5$</td> </tr> <tr> <td>Life time</td> <td>5000 hours</td> <td>7000 hours</td> <td>10000 hours</td> </tr> </table>	$\varnothing\text{D}$	$\varnothing\text{D} = 5, 6.3$	$\varnothing\text{D} = 8, 10$	$\varnothing\text{D} \geq 12.5$	Life time	5000 hours	7000 hours	10000 hours										
$\varnothing\text{D}$	$\varnothing\text{D} = 5, 6.3$	$\varnothing\text{D} = 8, 10$	$\varnothing\text{D} \geq 12.5$																
Life time	5000 hours	7000 hours	10000 hours																
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ are same as load life value.																		

DRAWING

Unit : mm



$\varnothing\text{D}$	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
$\varnothing\text{d}$	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.5			2.0			

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF \ Frequency(Hz)	120	1k	10k	100k \leq
~ 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

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WF series

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● 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	0.90	150
47							5×11	0.90	150	5×11	0.90	150
100	5×11	0.90	150	5×11	0.90	150	6.3×11	0.40	250	6.3×11	0.40	250
220	6.3×11	0.40	250	6.3×11	0.40	250	8×11.5	0.25	400	8×11.5	0.25	400
330	6.3×11	0.40	250	8×11.5	0.25	400	8×11.5	0.25	400	10×12.5	0.16	580
470	8×11.5	0.25	400	8×11.5	0.25	400	10×12.5	0.16	580	10×16	0.120	770
1000	10×12.5	0.16	580	10×16	0.120	770	10×20	0.078	1050	12.5×20	0.062	1300
2200	12.5×20	0.062	1300	12.5×20	0.062	1300	12.5×25	0.048	1650	16×25	0.034	1850
3300	12.5×20	0.062	1300	12.5×25	0.048	1650	16×25	0.034	1850	16×31.5	0.029	2000
4700	16×25	0.034	1850	16×25	0.034	1850	16×31.5	0.029	2000	18×35.5	0.025	2200
6800	16×25	0.034	1850	16×31.5	0.029	2000	18×35.5	0.025	2200			
10000	16×31.5	0.029	2000	18×35.5	0.025	2200						
15000	18×35.5	0.025	2200									

WV Item μF	35			50			63			100		
	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
0.47				5×11	5.5	17				5×11	6.0	15
1.0				5×11	4.0	30				5×11	4.5	20
2.2				5×11	2.5	43				5×11	3.0	30
3.3				5×11	2.2	53				5×11	2.7	40
4.7				5×11	1.9	88				5×11	2.5	65
10				5×11	1.5	100	5×11	2.3	87	6.3×11	1.2	140
22				5×11	0.9	150	6.3×11	1.30	140	8×11.5	0.63	160
33	5×11	0.90	150	6.3×11	0.40	250	6.3×11	1.20	140	10×12.5	0.43	230
47	6.3×11	0.40	250	6.3×11	0.40	250	8×11.5	0.63	210	10×16	0.31	290
100	8×11.5	0.25	400	8×11.5	0.25	400	10×12.5	0.43	300	12.5×20	0.16	430
220	10×12.5	0.16	580	10×16	0.12	770	10×25	0.210	520	16×25	0.073	900
330	10×16	0.120	770	10×20	0.08	1050	12.5×20	0.160	660	16×25	0.073	900
470	10×20	0.078	1050	12.5×20	0.062	1300	12.5×25	0.120	750			
1000	12.5×25	0.048	1650	16×25	0.034	1850	16×31.5	0.054	1390			
2200	16×31.5	0.029	2000	18×35.5	0.025	2200						
3300	18×35.5	0.025	2200									

MINIATURE TYPES