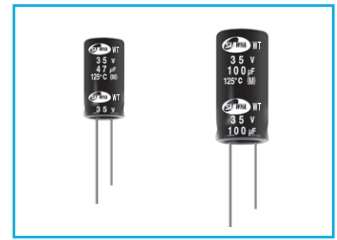


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

WT High Temperature, For 125°C Use Long Life Series

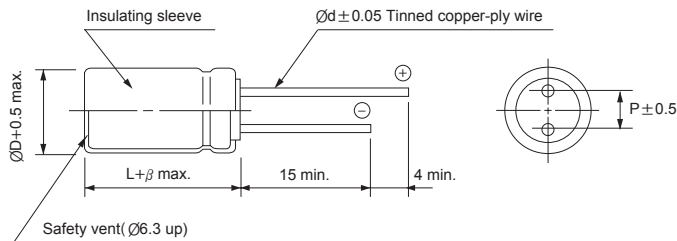
- Load life of 5000 hours at 125°C
- Low impedance at high frequency
- For Electronic Control Unit and other high temperature applications
- Complied to the RoHS directive



Item	Characteristics																					
Operating temperature range	-40 ~ +125°C																					
Leakage Current max.	$I = 0.03CV$ or $3\mu A$ 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> </tr> <tr> <td>tanδ</td> <td>0.22</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	WV	6.3	10	16	25	35	50	tan δ	0.22	0.20	0.16	0.14	0.12	0.10							
	WV	6.3	10	16	25	35	50															
tan δ	0.22	0.20	0.16	0.14	0.12	0.10																
When nominal capacitance is over 1000 μF , tan δ shall be added 0.02 to the listed value with increase of every 1000 μF .																						
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</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	WV	6.3	10	16	25	35	50	Z-25°C/Z+20°C	3	3	2	2	2	2	Z-40°C/Z+20°C	6	6	4	3	3	3
	WV	6.3	10	16	25	35	50															
	Z-25°C/Z+20°C	3	3	2	2	2	2															
Z-40°C/Z+20°C	6	6	4	3	3	3																
Load life (after application of the rated voltage for 5000 hours at 125°C)	Capacitance change	Within $\pm 30\%$ of initial value																				
	tan δ	Less than 300% of the specified value																				
	Leakage current	Less than specified value																				
	$\varnothing D \leq 6.3$: 1000 hours, $\varnothing D=8$: 2000 hours, $\varnothing D=10$: 3000 hours, $\varnothing D=12.5$: 5000 hours																					
Shelf life (at 125°C)	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.																					

● DRAWING

Unit : mm



$\varnothing D$	5	6.3	8	10	12.5
P	2.0	2.5	3.5	5.0	5.0
$\varnothing d$	0.5	0.5	0.6	0.6	0.6
β	1.5		2.0		

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency(Hz)	120	1k	10k	100k \leq
μF				
~ 33	0.20	0.50	0.80	1.00
47 ~ 100	0.25	0.60	0.90	1.00
150 ~ 220	0.35	0.70	0.92	1.00
330 ~ 680	0.45	0.75	0.95	1.00
1000 ~ 1500	0.50	0.80	0.96	1.00
2200 ~	0.55	0.85	0.98	1.00

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

WT series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	6.3			10			16		
	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz
68				5 × 11	0.400	250	5 × 11	0.400	250
100	5 × 11	0.400	250	6.3 × 11	0.170	405	6.3 × 11	0.170	405
150	6.3 × 11	0.170	405	6.3 × 11	0.170	405	6.3 × 11	0.170	405
220	6.3 × 11	0.170	405	8 × 11.5	0.094	760	8 × 11.5	0.094	760
330	8 × 11.5	0.094	760	8 × 11.5	0.094	760	10 × 12.5	0.069	1030
470	10 × 12.5	0.069	1030	10 × 12.5	0.069	1030	10 × 16	0.050	1430
680	10 × 16	0.050	1430	10 × 16	0.050	1430	10 × 20	0.030	1500
1000	10 × 20	0.030	1500	10 × 20	0.030	1500	12.5 × 20	0.028	1720
1500	10 × 25	0.029	1620	12.5 × 20	0.028	1720	12.5 × 25	0.024	1900
2200	12.5 × 20	0.028	1720	12.5 × 25	0.024	1900			
3300	12.5 × 25	0.024	1900						

WV Item μF	25			35		
	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz
22				5 × 11	0.400	250
33				6.3 × 11	0.170	405
47	5 × 11	0.400	250	6.3 × 11	0.170	405
68	6.3 × 11	0.170	405	8 × 11.5	0.094	760
100	6.3 × 11	0.170	405	8 × 11.5	0.094	760
150	8 × 11.5	0.094	760	10 × 12.5	0.069	1030
220	10 × 12.5	0.069	1030	10 × 16	0.050	1430
330	10 × 16	0.050	1430	10 × 25	0.029	1620
470	10 × 20	0.030	1500	12.5 × 20	0.028	1720
680	12.5 × 20	0.028	1720	12.5 × 25	0.024	1900
1000	12.5 × 25	0.024	1900			