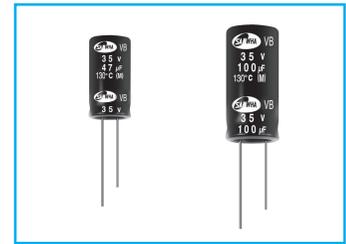


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

**VB** 155°C, High Temp, High Reliability Series



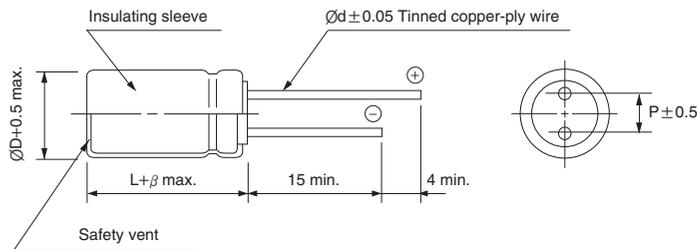
- Load life of 1000 hours at 155°C use
- For Electronic Control Unit and other high temperature applications
- Complied to the RoHS directive

VA → **VB**  
High Temp.

Item	Characteristics																											
Operating temperature range	-40 ~ +155°C																											
Leakage current max.	$I = 0.03CV$ or $4\mu A$ whichever is greater (after 1 minute)																											
Capacitance tolerance	$\pm 20\%$ (20°C, 120Hz)																											
Dissipation factor max. (at 120Hz, 20°C)	When the capacitance exceeds 1000 $\mu F$ , 0.02 for each 1000 $\mu F$ increase.																											
	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td><math>\tan\delta</math></td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> </tr> </tbody> </table>	Rated Voltage(V)	10	16	25	35	50	63	80	100	$\tan\delta$	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.08									
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Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	WV	10	16	25	35	50	63	80	100	Z-25°C/Z+20°C	3	2	2	2	2	2	2	2	Z-40°C/Z+20°C	4	4	4	4	4	4	4	4
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## ● DRAWING

Unit : mm



ØD	10	12.5	16	18
P	5	5	7.5	7.5
Ød	0.6	0.6	0.8	0.8
β	2.0			

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

CV	Frequency	120Hz	1kHz	50kHz	100kHz $\leq$
$1000 \leq CV$		0.67	0.91	0.95	1.00
$1000 > CV$		0.50	0.83	0.91	1.00

## VB series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item $\mu\text{F}$	10		16		25		35	
	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz
1.0							10 × 12.5	35
2.2							10 × 12.5	50
3.3							10 × 12.5	60
4.7							10 × 12.5	85
10							10 × 12.5	175
22							10 × 12.5	200
33							10 × 12.5	225
47							10 × 12.5	250
100					10 × 12.5	250	10 × 20	400
220			10 × 16	300	12.5 × 20	500	12.5 × 25	600
330	10 × 16	300	10 × 20	400	12.5 × 25	600	16 × 25	800
470	10 × 20	400	12.5 × 20	600	16 × 25	800	16 × 31.5	1000
1000	12.5 × 25	600	16 × 25	800	16 × 31.5	1000	18 × 40	1300
2200	16 × 31.5	1000	18 × 35.5	1200				
3300	18 × 35.5	1200	18 × 40	1300				
4700	18 × 40	1300						

WV Item $\mu\text{F}$	50		63		80		100	
	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz	$\text{ØD} \times \text{L}(\text{mm})$	Ripple current (mA rms) 155°C, 100kHz
22							10 × 12.5	390
33					10 × 12.5	420	10 × 16	510
47					10 × 16	550	10 × 20	640
56			10 × 12.5	430	10 × 20	690	10 × 20	640
68			10 × 16	560	10 × 20	690	12.5 × 20	760
100	10 × 16	380	10 × 20	710	12.5 × 20	820	12.5 × 25	950
220	12.5 × 20	640	12.5 × 25	1040	16 × 25	1250	16 × 31.5	1380
330	16 × 20	770	16 × 20	1080	16 × 31.5	1480	18 × 31.5	1430
470	16 × 25	960	16 × 25	1280	18 × 31.5	1530		
560	16 × 31.5	1080	16 × 31.5	1520				
680	18 × 25	1190	16 × 35.5	1520				
1000	18 × 31.5	1420						