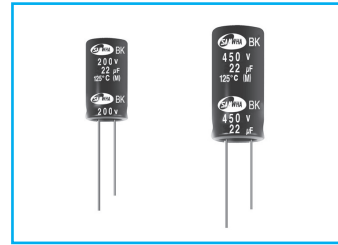
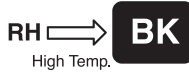


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

**BK** For PSU, High Temperature Series

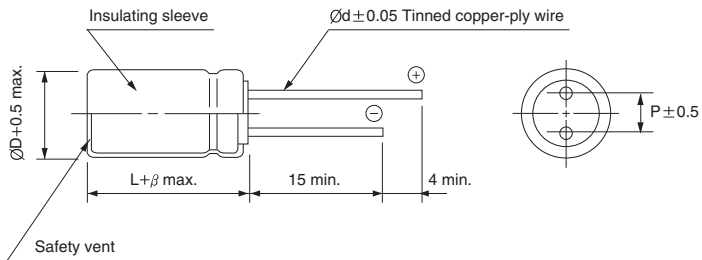
- High reliability withstanding 5000 hours load life at 125°C
- Suitable for compact energy saving lamp
- Complied to the RoHS directive



Item	Characteristics														
Operating temperature range	-25 ~ +125°C														
Leakage current max.	$I = 0.03CV + 15\mu A$ ( $CV \leq 1000$ ), $I = 0.02CV + 25\mu A$ ( $CV > 1000$ ) (after 5 minutes)														
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C														
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td><math>\tan\delta</math></td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> </tr> </table>	Rated Voltage(V)	160	200	250	350	400	450	$\tan\delta$	0.15	0.15	0.15	0.20	0.24	0.24
Rated Voltage(V)	160	200	250	350	400	450									
$\tan\delta$	0.15	0.15	0.15	0.20	0.24	0.24									
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	WV	160	200	250	350	400	450	Z-25°C/Z+20°C	3	3	3	6	6	6
WV	160	200	250	350	400	450									
Z-25°C/Z+20°C	3	3	3	6	6	6									
Load life	<p>After an application of DC bias voltage plus the rated AC ripple current for 5000 hours at 125°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.</p> <table border="1"> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within <math>\pm 20\%</math> of initial value</td> </tr> <tr> <td><math>\tan\delta</math></td> <td>Less than 200% of specified value</td> </tr> </table> <p>450WV products are for 2000 hours.</p>	Leakage current	Less than specified value	Capacitance change	Within $\pm 20\%$ of initial value	$\tan\delta$	Less than 200% of specified value								
Leakage current	Less than specified value														
Capacitance change	Within $\pm 20\%$ of initial value														
$\tan\delta$	Less than 200% of specified value														
Shelf life (at 125°C)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ 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
P	5.0	5.0	7.5
Ød	0.6	0.6	0.8
β	2.0		

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	160	200	250	350	400	450
2.2				10 × 12.5	135	10 × 12.5
3.3			10 × 12.5	135	10 × 16	150
4.7	10 × 12.5	135	10 × 12.5	150	10 × 12.5	150
					10 × 16	180
10	10 × 12.5	165	10 × 12.5	195	10 × 16	210
	10 × 16	210	10 × 16	240	10 × 20	255
22	10 × 20	420	10 × 20	420	12.5 × 20	450
33	12.5 × 20	600	12.5 × 20	600	12.5 × 25	675
47	12.5 × 25	780	12.5 × 25	780		

← Ripple current (mA rms) at 125°C, 100kHz  
 ← Case size ØD × L (mm)

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz ≤
Coefficient	0.30	0.40	0.70	0.90	0.95	1.00

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[NEVH2.2M160AB](#) [NEVH3.3M350BC](#) [TER330M50GM](#)