

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

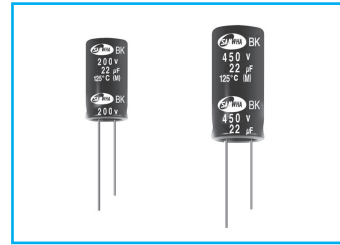
Upgrade

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

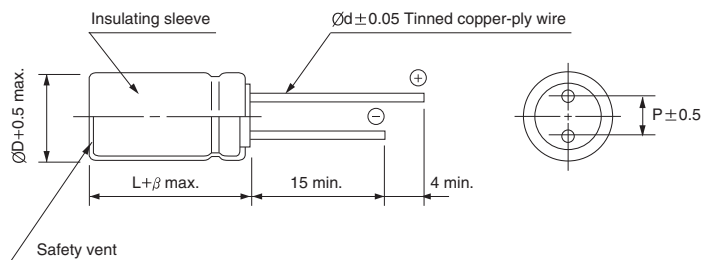
RH → **BK**
High Temp.



Item	Characteristics						
Operating temperature range	-25 ~ +125°C						
Leakage current max.	I = 0.03CV+15μA (CV ≤ 1000), I = 0.02CV+25μA (CV > 1000) (after 5 minutes)						
Capacitance tolerance	±20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	Rated Voltage(V)	160	200	250	350	400	450
	tanδ	0.15	0.15	0.15	0.20	0.24	0.24
Low temperature characteristics (Impedance ratio at 120Hz)	WV	160	200	250	350	400	450
	Z-25°C/Z+20°C	3	3	3	6	6	6
Load life	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.						
	Leakage current		Less than specified value				
	Capacitance change		Within ±20% of initial value				
	tanδ		Less than 200% of specified value				
	450WV products are for 2000 hours.						
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
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, 135	
3.3			10 × 12.5, 135	10 × 16, 180	10 × 16, 150	
4.7	10 × 12.5, 135	10 × 12.5, 150	10 × 12.5, 150 10 × 16, 180	10 × 16, 195 10 × 20, 255	10 × 20, 255	10 × 25, 156
10	10 × 12.5, 165 10 × 16, 210	10 × 12.5, 195 10 × 16, 240	10 × 16, 210 10 × 20, 255	12.5 × 20, 375	12.5 × 20, 375	12.5 × 20, 232
22	10 × 20, 420	10 × 20, 420	12.5 × 20, 450	Ripple current (mA rms) at 125°C, 100kHz Case size ØD × L (mm)		16 × 25, 415
33	12.5 × 20, 600	12.5 × 20, 600	12.5 × 25, 675			16 × 31.5, 548
47	12.5 × 25, 780	12.5 × 25, 780				

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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