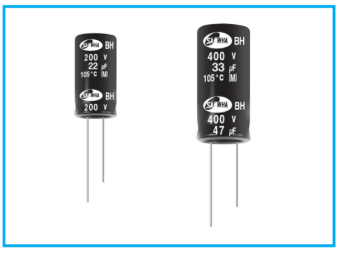
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

BH For PSU, High Ripple Current Series

Long Life

RH ⇨ BH
High Ripple



- Higher ripple current compared with RH series
- Operating temperature range of -25 ~ +105°C
- High reliability withstanding 5000 hours load life at 105°C
- Complied to the RoHS directive

Item	Characteristics
Operating temperature range	-40 ~ +105°C
Leakage current max.	I = 0.04CV + 100μA (after 1 minute) I = 0.02CV + 25μA (after 5 minutes)
Capacitance tolerance	±20% at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV: 200 / 250 / 350 / 400 / 450 / 500 tanδ: 0.15 / 0.15 / 0.20 / 0.24 / 0.24 / 0.24
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 200 / 250 / 350 / 400 / 450 / 500 Z-25°C/Z+20°C: 3 / 3 / 3 / 3 / 3 / 3 Z-40°C/Z+20°C: 11 / 11 / 11 / 11 / 11 / 11
Load life	After an application of DC bias voltage plus the rated AC ripple current for 5000 hours at 105°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
Shelf life (at 105°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 (See page 91)

Unit : mm

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	200		250		350		400	
2.2							10 × 12.5	130
3.3					10 × 12.5	140	10 × 12.5	140
4.7					10 × 16	220	10 × 16	220
6.8					10 × 16	280	10 × 16	280
8.2					8 × 20	300	8 × 20	400
					10 × 16	300	10 × 20	400
10	10 × 16	320	10 × 16	320	8 × 20	300	8 × 23	400
					10 × 20	400	10 × 20	400
22	8 × 20	300	8 × 23	350	10 × 30	500	12.5 × 20	700
	10 × 20	550	10 × 20	550	12.5 × 20	650	12.5 × 25	780
					12.5 × 25	680		
33	12.5 × 20	700	12.5 × 20	800	16 × 25	910	16 × 25	920
47	12.5 × 20	980	12.5 × 25	1040	12.5 × 30	1050		
					18 × 20	1150		
68	12.5 × 20	1100	12.5 × 30	1300	16 × 31.5	1300		
	12.5 × 25	1300	16 × 25	1350				
82	16 × 20	1450	12.5 × 30	1450	← Ripple current (mA rms) at 105°C, 100kHz			
100	12.5 × 30	1550	↑		← Case size ØD×L (mm)			
	16 × 25	1630						

WV	Cap.(μF)	ØD×L(mm)	Rated ripple current (mA rms)105°C				
			120Hz	1kHz	10kHz	50kHz	100kHz≦
450	8.2	8×20	160	280	360	380	400
500	4.7	8×20	75	130	180	220	250
	5.6	8×20	120	210	270	285	300

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF \ Frequency	120Hz	1kHz	10kHz	50kHz	100kHz≦
~ 4.7	0.40	0.60	0.80	0.90	1.00
6.8 ~ 10	0.40	0.70	0.90	0.95	1.00
22 ~	0.50	0.80	0.90	0.95	1.00