

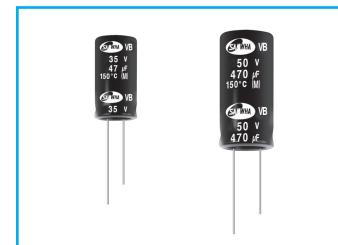
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

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

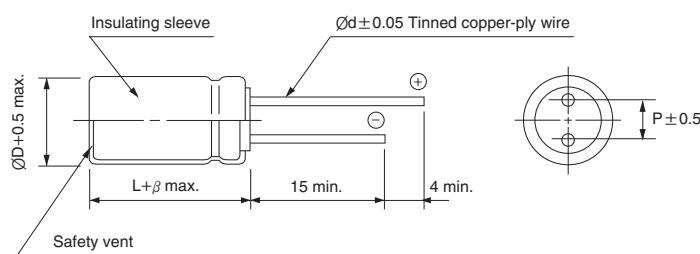
VA → VB
High Temp.



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	$\pm 20\%$ at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > $1000\mu F$: $\tan\delta$ increases by 0.02 for each $1000\mu F$ from below value.							
	Rated Voitafe(V)	10	16	25	35	50	63	80
	$\tan\delta$	0.20	0.16	0.14	0.12	0.10	0.10	0.08
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50	63	80
	Z-25°C/Z+20°C	3	2	2	2	2	2	2
	Z-40°C/Z+20°C	4	4	4	4	4	4	4
Load life (after application of the rated voltage for 1000 hours at 155°C)	Leakage current	Less than specified value						
	Capacitance change	Within $\pm 30\%$ of initial value						
	$\tan\delta$	Less than 300% of specified value						
Shelf life (at 155°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	18
P	5.0	5.0	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 ≤
1000 ≤ 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 μF	10	16	25	35		
	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz
22						10 × 12.5
33						10 × 12.5
47						10 × 12.5
100				10 × 12.5	250	10 × 20
220		10 × 16	300	12.5 × 20	500	12.5 × 25
330	10 × 16	300	10 × 20	400	600	16 × 25
470	10 × 20	400	12.5 × 20	600	800	16 × 31.5
1000	12.5 × 25	600	16 × 25	800	1000	18 × 40
2200	16 × 31.5	1000	18 × 35.5	1200		
3300	18 × 35.5	1200	18 × 40	1300		
4700	18 × 40	1300				

WV Item μF	50	63	80	100		
	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz	$\varnothing\text{D} \times \text{L(mm)}$	Ripple current (mA rms) 155°C, 100kHz
22						10 × 12.5
33				10 × 12.5	420	10 × 16
47				10 × 16	550	10 × 20
56		10 × 12.5	430	10 × 20	690	10 × 20
68		10 × 16	560	10 × 20	690	12.5 × 20
100	10 × 16	380	10 × 20	710	12.5 × 20	820
220	12.5 × 20	640	12.5 × 25	1040	16 × 25	1250
330	16 × 20	770	16 × 20	1080	16 × 31.5	1480
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				