

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

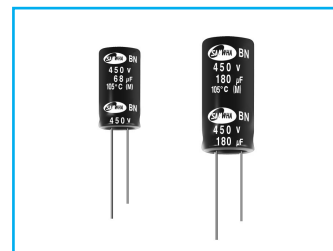


Upgrade

BN

For Network, High Ripple, 12000 hours at 105°C Series

LL
Long Life

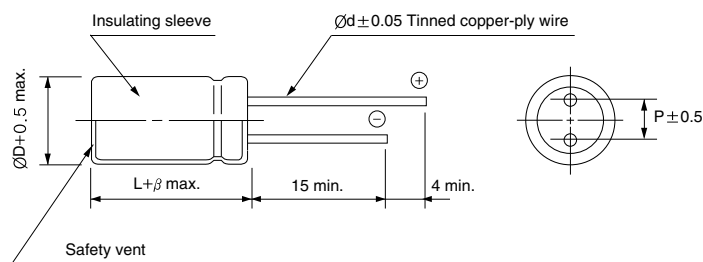


- High reliability withstanding 12000 hours load life at 105°C
- For DC-DC convertor
- Complied to the RoHS directive

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	400 ~ 500	
	tanδ	0.24	
Low temperature characteristics (Impedance ratio at 120Hz)	WV	400, 450	500
	Z-25°C/Z+20°C	6	6
	Z-40°C/Z+20°C	6	11
Load life	After an application of DC bias voltage plus the rated AC ripple current for 12000 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 ±30% of initial value	
	tanδ	Less than 300% 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

Unit : mm



ØD		18
P		7.5
Ød		0.8
β	L ≤ 40mm	2.0
	L ≥ 40mm	3.0

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	400		450		500	
47	18 × 25	1150	18 × 25	1200	18 × 25	1350
68	18 × 25	1300	18 × 25	1500	18 × 31.5	1550
82	18 × 31.5	1400	18 × 31.5	1600	18 × 35.5	1650
100	18 × 31.5	1500	18 × 31.5	1700	18 × 40	1750
120	18 × 35.5	1700	18 × 35.5	1900	18 × 45	1950
150	18 × 40	1850	18 × 40	2000	18 × 50	2050
180	18 × 45	2050	18 × 45	2180		

Ripple current (mA rms) at 105°C, 100kHz
Case size ØD × L (mm)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
Coefficient	0.50	0.80	0.90	0.95	1.00

MINIATURE TYPES