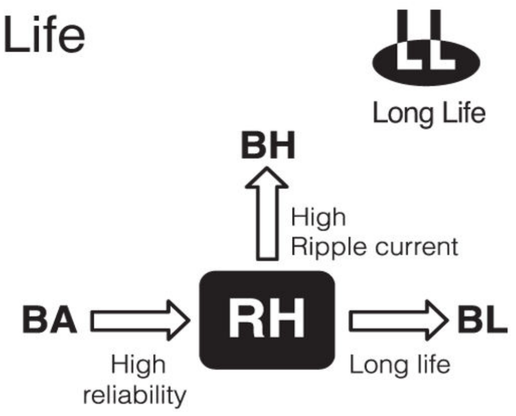
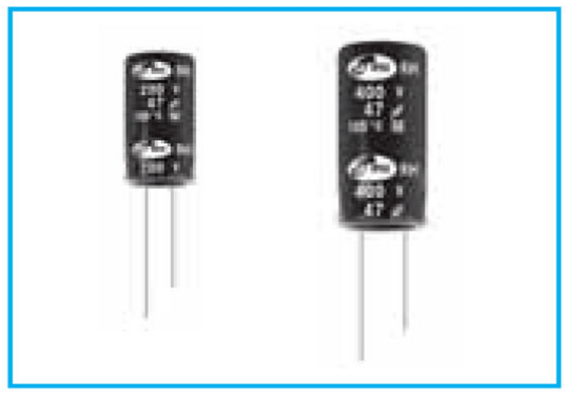
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RH

For PSU High Ripple Current, Long Life Series

- High ripple current
- High reliability withstanding 5000 hours load life at 105°C
- Suited for ballast application
- Complied to the RoHS directive

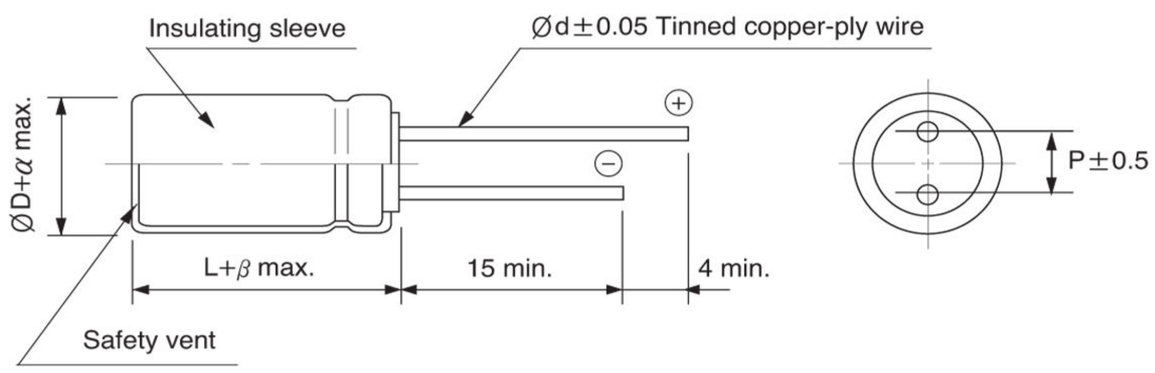




Item	Characteristics
Operating temperature range	WV: 160 ~ 450 / 500; Temperature range: -40 ~ +105°C / -25 ~ +105°C
Leakage current max.	I = 0.02CV + 15μA (after 5 minutes)
Capacitance tolerance	±20% at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV: 160 / 200 / 250 / 350 / 400 / 450 / 500; tanδ: 0.15 / 0.15 / 0.15 / 0.20 / 0.24 / 0.24 / 0.24
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 160 / 200 / 250 / 350 / 400 / 450 / 500; Z-25°C/Z+20°C: 3 / 3 / 3 / 4 / 6 / 6 / 6; Z-40°C/Z+20°C: 4 / 4 / 4 / 8 / 10 / 10 / -
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 6035 clause 5.4.

DRAWING

Unit : mm



ØD	10	12.5	16	18	20	22
P	5.0	5.0	7.5	7.5	10.0	10.0
Ød	0.6	0.6	0.8	0.8	0.8	1.0
β	2.0				3.0	
α	0.5				1.0	

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF \ Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz≦
~ 4.7	0.25	0.30	0.60	0.80	0.90	1.00
6.8 ~ 15	0.30	0.40	0.70	0.90	0.95	1.00
22 ~	0.40	0.50	0.80	0.90	0.95	1.00

RH series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	160		200		250		350	
1.0							10 × 12.5	80
2.2							10 × 12.5	90
3.3							10 × 12.5	100
							10 × 16	130
4.7							10 × 16	200
6.8			10 × 12.5	120	10 × 12.5	120	10 × 16	200
10	10 × 16	250	10 × 16	300	10 × 20	300	10 × 20	280
15					10 × 12.5	260		
22	10 × 16	360	10 × 16	360	12.5 × 20	600	12.5 × 20	350
	10 × 20	500	10 × 20	500				
33	10 × 20	500	10 × 20	500	12.5 × 20	600	16 × 20	500
			12.5 × 20	600				
47	12.5 × 20	600	12.5 × 20	660	12.5 × 25	720	16 × 25	660
68	12.5 × 25	600	12.5 × 25	760	16 × 25	920	16 × 31.5	800
82	16 × 20	760	16 × 20	880	16 × 25	1120	18 × 31.5	920
100	16 × 25	1100	16 × 25	1120	16 × 31.5	1200	18 × 31.5	1020
120	16 × 25	1180	16 × 31.5	1200	18 × 25	1200	18 × 31.5	1150
150	16 × 31.5	1300	16 × 31.5	1300	18 × 25	1250	18 × 40	1250
					18 × 31.5	1250		
220					18 × 35.5	1600		

μF \ WV	400		450		500	
1.0	10 × 12.5	90				
2.2	10 × 12.5	100	10 × 16	120		
	10 × 16	120				
3.3	10 × 16	140	10 × 16	140		
4.7	10 × 16	180	10 × 20	180		
6.8	10 × 16	200	10 × 20	200		
10	10 × 20	280	12.5 × 20	300	12.5 × 20	300
15	12.5 × 16	280				
22	12.5 × 25	430	16 × 25	550	16 × 25	420
33	16 × 25	640	16 × 31.5	700	16 × 31.5	560
47	16 × 31.5	750	16 × 31.5	700	18 × 35.5	700
56			18 × 25	750	18 × 35.5	740
68	16 × 31.5	880	18 × 25	900	18 × 35.5	900
			18 × 31.5	1000		
82	16 × 35.5	1000	18 × 31.5	1035	18 × 40	1030
			18 × 35.5	1100		
100	18 × 35.5	1120	18 × 35.5	1296	18 × 45	1100
					20 × 41	1200
120	18 × 40	1250	18 × 40	1500		
150	20 × 41	1380	20 × 41	1796		
180	20 × 41	1450	22 × 45	1800		

Ripple current (mA rms) at 105°C, 100kHz

Case size ∅D × L (mm)