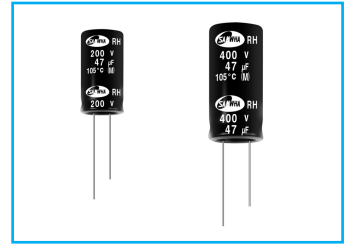
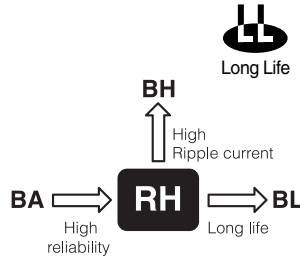


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



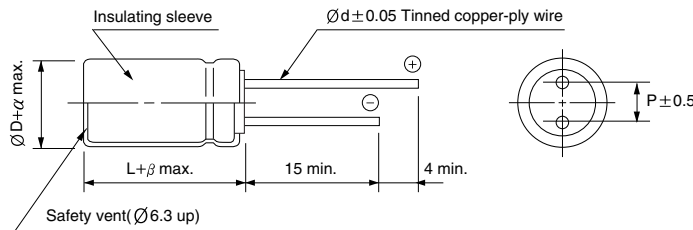
High Ripple Current, High Reliability Series

- 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 ~ 250		350 ~ 450		
	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
	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	4	6	6
	Z-40°C/Z+20°C	4	4	4	-	-	-
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.						
	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.						

DRAWING



Unit : mm

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

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	160		200		250		350		400		450	
1.0							10 × 12.5	80	10 × 12.5	90		
2.2							10 × 12.5	90	10 × 12.5	100	10 × 16	120
3.3							10 × 12.5	100	10 × 16	140	10 × 16	140
							10 × 16	130				
4.7							10 × 16	200	10 × 16	180	10 × 20	180
6.8			10 × 12.5	120	10 × 12.5	120	10 × 16	200	10 × 16	200	10 × 20	200
10	10 × 16	250	10 × 16	300	10 × 20	300	10 × 20	280	10 × 20	280	12.5 × 20	300
	10 × 16	360	10 × 16	360	12.5 × 20	600	12.5 × 20	350	12.5 × 25	430	16 × 25	550
	10 × 20	500	10 × 20	500								
22	10 × 20	500	12.5 × 20	600	12.5 × 20	600	16 × 20	500	16 × 25	640	16 × 31.5	700
33	12.5 × 20	600	12.5 × 20	660	12.5 × 25	720	16 × 25	660	16 × 31.5	750	16 × 31.5	700
47	12.5 × 25	600	12.5 × 25	760	16 × 25	920	16 × 31.5	800	16 × 31.5	880	18 × 31.5	1000
68	16 × 20	760	16 × 20	880	16 × 25	1120	18 × 31.5	920	16 × 35.5	1000	18 × 35.5	1100
82	16 × 25	1100	16 × 25	1120	16 × 31.5	1200	18 × 31.5	1020	18 × 35.5	1120	18 × 35.5	1250
100	16 × 25	1180	16 × 31.5	1200	18 × 25	1200	18 × 35.5	1150	18 × 40	1250	18 × 40	1400
120	16 × 31.5	1300	16 × 31.5	1300	18 × 31.5	1250	18 × 40	1250	20 × 41	1380	20 × 41	1550

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency(Hz)	50(60)	120	300	1k	10k	100k ≤
1.0 ~ 4.7	0.25	0.3	0.45	0.6	0.8	1.0
6.8 ~ 10	0.3	0.4	0.5	0.7	0.9	1.0
22 ~ 150	0.4	0.5	0.7	0.8	0.9	1.0