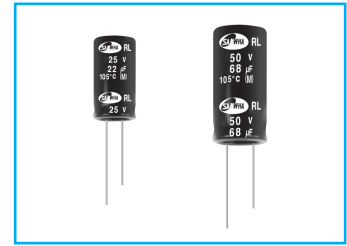


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

**RL** Low Leakage Current, Wide Temperature Range Series

**LC** Low Leakage Current  
**S** Solvent Proof

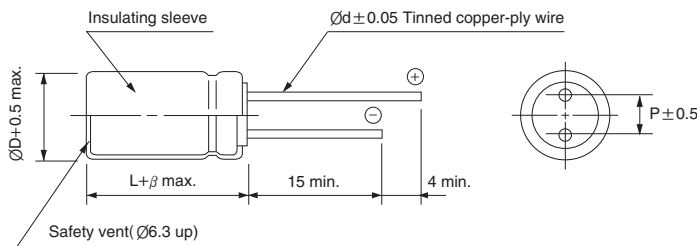


- Low leakage current series
- Wide operating temperature range of -55 ~ +105°C
- For Hi-Fi sound audio systems
- Complied to the RoHS directive

Item	Characteristics						
Operating temperature range	-55 ~ +105°C						
Leakage current max.	I = 0.002CV or 0.4µA whichever is greater (after 2 minutes)						
Capacitance tolerance	±20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35	40	50
	tanδ	0.15	0.12	0.08	0.08	0.08	0.08
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	40	50
	Z-25°C/Z+20°C	2	2	2	2	2	1.5
	Z-40°C/Z+20°C	4	4	3	3	3	2
Load life (after application of the rated voltage for 1000 hours at 105°C)	Leakage current	Less than specified value					
	Capacitance change	Within ±15% of initial value					
	tanδ	Less than 150% 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	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Ød	0.5	0.5	0.6	0.6
β		1.5		2.0

## DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	10	16	25	35	40	50
1.0						5×11 14
1.5						5×11 17
2.2						5×11 21
3.3						5×11 25
4.7						5×11 30
6.8						5×11 36
10					5×11 44	5×11 44
15				5×11 54	6.3×11 62	6.3×11 62
22			5×11 65	6.3×11 75	6.3×11 75	6.3×11 75
33		5×11 65	6.3×11 92	6.3×11 92	8×11.5 109	8×11.5 109
47	5×11 70	6.3×11 90	6.3×11 110	8×11.5 129	8×11.5 129	8×11.5 129
68	6.3×11 96	6.3×11 108	8×11.5 156	8×11.5 156	10×12.5 181	10×12.5 181
100	6.3×11 117	8×11.5 154	8×11.5 189	10×12.5 219		
150	8×11.5 169	8×11.5 189	10×12.5 269			
220	8×11.5 205	10×12.5 266				
330	10×12.5 291					

Ripple current (mA rms) at 105°C, 120Hz  
Case size ØD×L (mm)

## FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency	50Hz	120Hz	1kHz	10kHz ≤
~ 47	0.75	1.00	1.55	2.00
68 ~	0.80	1.00	1.35	1.50