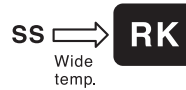
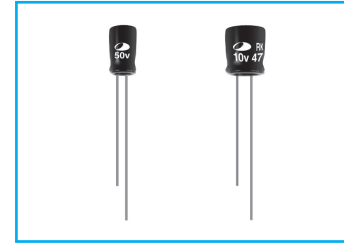


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

## RK Wide Temperature Range, Height 7mmL Series

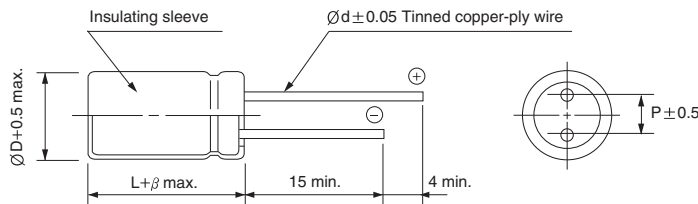
- Super miniature series with 7mmL height
- High performance and excellent temperature characteristics
- Wide operating temperature range of -55 ~ +105°C
- Complied to the RoHS directive



Item	Characteristics								
Operating temperature range	-55 ~ +105°C								
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 1 minute)								
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C								
Dissipation factor max. (at 120Hz, 20°C)	WV	4	6.3	10	16	25	35	50	63
	$\tan\delta$	0.35	0.22	0.19	0.15	0.12	0.12	0.10	0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV	4	6.3	10	16	25, 35	50, 63		
	Z-25°C/Z+20°C	6	4	3	2	2	2		
	Z-40°C/Z+20°C	12	10	8	6	4	3		
Load life (after application of the rated voltage for 1000 hours at 105°C)	Leakage current	Less than specified value							
	Capacitance change	Within $\pm 20\%$ of initial value							
	$\tan\delta$	Less than 200% of specified value							
Shelf life (at 105°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	4	5	6.3
P	1.5	2.0	2.5
Ød	0.45	0.5	0.5
β	1.0	1.5	1.5

### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	4	6.3	10	16	25	35	50	63				
1.0							4×7	9.1	4×7	9.1		
2.2							4×7	14	5×7	16		
3.3						4×7	15	5×7	19	6.3×7	22	
4.7					4×7	18	5×7	21	6.3×7	26	6.3×7	26
6.8				4×7	19	5×7	25	5×7	25	6.3×7	32	
10			4×7	21	4×7	24	5×7	30	6.3×7	35		
22		4×7	29	5×7	36	5×7	40	6.3×7	52			
33	4×7	28	5×7	40	6.3×7	51	6.3×7	57				
47	4×7	33	5×7	47	6.3×7	60						
68	5×7	46	6.3×7	67								

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

### FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz ≤
~ 47	0.75	1.00	1.55	2.00	2.00	2.00
68 ~	0.80	1.00	1.35	1.50	1.62	1.75