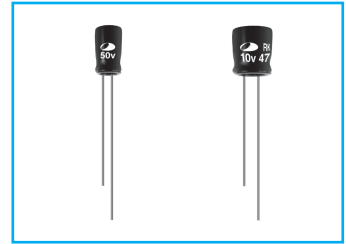


RK Wide Temperature Range, Height 7mmL Series

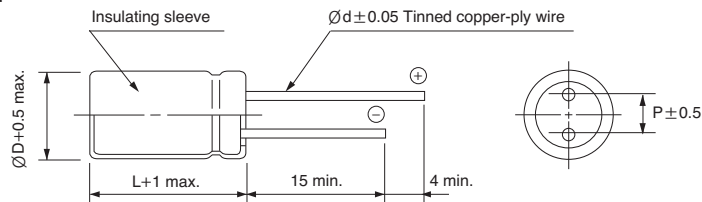
- Super miniature series with 7mmL height
- High performance and excellent temperature characteristics
- Wide operating temperature range of -55 ~ +105°C
- Complied to the RoHS directive



Item	Characteristics								
Operating temperature range	-55 ~ +105°C								
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 1 minute)								
Capacitance tolerance	± 20% at 120Hz, 20°C								
Dissipation factor max. (at 120Hz, 20°C)	WV	4	6.3	10	16	25	35	50	63
	tanδ	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 ±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 6503 clause 5.1.								

DRAWING

Unit : mm



ØD	4	5	6.3
P	1.5	2.0	2.5
Ød	0.45	0.5	0.5

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μ F \ WV	4		6.3		10		16		25		35		50		63	
0.1													4×7	2.9	4×7	2.9
0.22													4×7	4.3	4×7	4.3
0.33													4×7	5.2	4×7	5.2
0.47													4×7	6.2	4×7	6.2
0.68													4×7	7.5	4×7	7.5
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