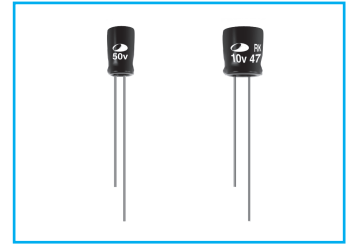
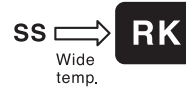


RK Wide Temperature Range, Height 7mmL Series

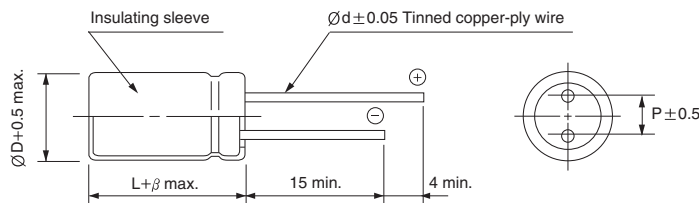
- Super miniature series with 7mmL height
- High performance and excellent temperature characteristics
- Wide operating temperature range of -55 ~ +105°C
- Complied to the RoHS directive



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)	<table border="1"> <tr> <td>WV</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tanδ</td> <td>0.35</td> <td>0.22</td> <td>0.19</td> <td>0.15</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </table>	WV	4	6.3	10	16	25	35	50	63	tan δ	0.35	0.22	0.19	0.15	0.12	0.12	0.10	0.10			
	WV	4	6.3	10	16	25	35	50	63													
tan δ	0.35	0.22	0.19	0.15	0.12	0.12	0.10	0.10														
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25, 35</td> <td>50, 63</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>6</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>	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
	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 δ	Less than 200% of specified value																				
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan δ 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