

RKV SERIES
105°C Standard, 5.5mm MAX Height.
◆ FEATURES

- Load Life : 105°C 1000 hours.
- Reflow soldering is available.
- Available for high density mounting.


◆ SPECIFICATIONS

Items	Characteristics																					
Operating Temperature Range	-55~+105°C																					
Rated Voltage Range	6.3~50V.DC																					
Capacitance Tolerance	±20%(20°C, 120Hz)																					
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Nominal Capacitance(μF) V=Rated Voltage(V)																					
Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table> (20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	tanδ	0.30	0.24	0.20	0.16	0.14	0.14							
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Load Life	After applying rated voltage with max ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 300% of the specified value.	Leakage Current	Not more than the specified value.															
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> (120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	Z(-40°C)/Z(20°C)	8	8	4	4	3	3
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◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency coefficient

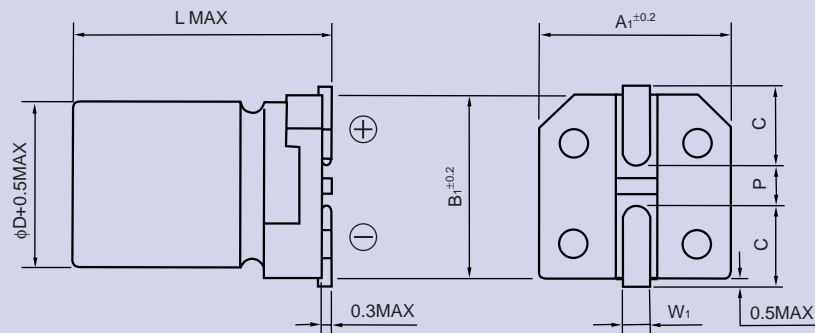
Frequency(Hz)	60(50)	120	500	1k	10k≤
0.1~47μF	0.8	1.0	1.20	1.30	1.50
100μF	0.8	1.0	1.10	1.15	1.20

(2) Temperature coefficient

Ambient Temperature (°C)	105	85	65≥
Coefficient	1.0	1.7	2.1

◆ DIMENSIONS

(mm)



φD	L	A ₁	B ₁	C	W ₁	P
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0
5	5.5	5.3	5.3	2.1	0.5~0.8	1.4
6.3	5.5	6.6	6.6	2.5	0.5~0.8	2.0

◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

Size φDxL(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

WV(V.DC) Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4x5.5	1.0
0.22											4x5.5	2.0
0.33											4x5.5	3.0
0.47											4x5.5	4.0
1											4x5.5	8.0
2.2											4x5.5	11
3.3											4x5.5	13
4.7									4x5.5	14	5x5.5	18
10					4x5.5	20			5x5.5	24	6.3x5.5	28
22	4x5.5	23			5x5.5	31			6.3x5.5	46		
33			5x5.5	34			6.3x5.5	48				
47	5x5.5	37			6.3x5.5	56						
100	6.3x5.5	57										