

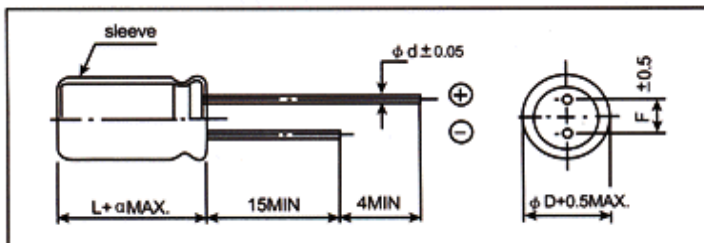
SK series 105°C 7mmL

- Designed for application of circuits at high operating temperature
- Solvent proof

SPECIFICATIONS

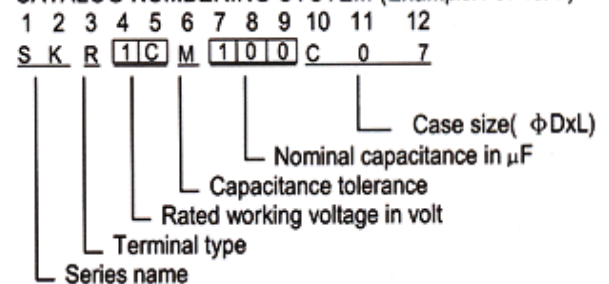
Item	Performance Characteristics																							
Operating Temperature Range	- 40 ~ + 105°C																							
Rated Voltage Range	6.3 - 63V																							
Capacitance Range	0.1~220μF																							
Capacitance Tolerance	± 20% at 120Hz , 25°C																							
Leakage Current (MAX)	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 μA , whichever is greater																							
Dissipation Factor (tan δ)	Measurement frequency:120Hz, Temperature:25°C																							
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (MAX)</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	Tan δ (MAX)	0.26	0.22	0.18	0.16	0.14	0.12									
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Low Temperature Stability Impedance Ratio	Measurement frequency: 120Hz																							
	<table border="1"> <tr> <td colspan="2">Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">Impedance ratio ZT/Z20(MAX)</td> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V)		6.3	10	16	25	35	50	Impedance ratio ZT/Z20(MAX)	Z(-25°C)/Z(+20°C)	3	2	2	2	2	2	Z(-40°C)/Z(+20°C)	6	5	4	3	3	3
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	Z(-40°C)/Z(+20°C)	6	5	4	3	3	3																	
Load Life	After 1000 hours' application of rated voltage at 105°C capacitors meet the characteristics requirements listed at right																							
	<table border="1"> <tr> <td>Leakage Current</td> <td>Specified value or less</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±25% of initial value.</td> </tr> <tr> <td>tanδ</td> <td>200% or less of specified value</td> </tr> </table>	Leakage Current	Specified value or less	Capacitance Change	Within ±25% of initial value.	tanδ	200% or less of specified value																	
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Shelf Life	After leaving capacitors under no load at 105°C for 500 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above.																							
Standard	According to JIS C-5141																							

DIMENSIONS (mm)



φD	4	5	6.3	8
φd	0.45	0.45	0.45	0.5
F	1.5	2.0	2.5	3.5
α	1.0			

CATALOG NUMBERING SYSTEM (Example:1 6v 10μF)



STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

SIZE ϕ DxL(mm) Ripple Current(mA105°C,120Hz) r.m.s

Cap. μ F	W.V Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4x7	1
0.22	R22											4x7	2.3
0.33	R33											4x7	3.5
0.47	R47											4x7	5
1	010											4x7	10
2.2	2R2											4x7	19
3.3	3R3											4x7	24
4.7	4R7									4x7	24	4x7 5x7	26 29
10	100					4x7	29	4x7	31 33	4x7 5x7	34 36	5x7	44
22	220	4x7	34	5x7	38	5x7	41 44	6.3x7	51	5x7 6.3x7	46 57	6.3x7 8x7	61 65
33	330	5x7	42	5x7	47	6.3x7	57	6.3x7	63	8x7	72		
47	470	5x7	50	6.3x7	59	6.3x7	68	8x7	78				
100	101	6.3x7	77	6.3x7 8x7	86 96	6.3x7 8x7	96 107	8x7	115				
220	221	8x7	130	8x7	140							(DxL)	(mA)

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

W.V.	FREQUENCY Cap(μ F)	FREQUENCY (Hz)				
		60(50)	120	300	1K	10K~
6.3~50	0.1~47	0.80	1.00	1.20	1.30	1.50
	100~220	0.80	1.00	1.10	1.15	1.20

Temperature coefficient

Temperature	~65°C	75°C	105°C
Coefficient	1.27	1.20	1.00