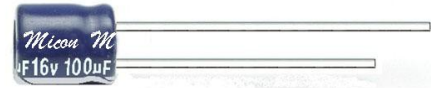


SK series

Features

- ◆ Design for space-saving and high density insertion.
- ◆ Applications: VTR, car radio ,car stereos , charger , etc.
- ◆ For detail specifications, please refer to Engineering Bulletin No.E115
- ◆ RoHS Compliant



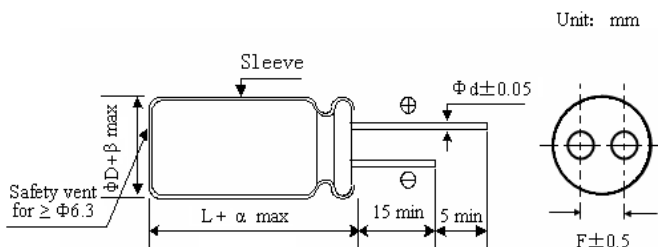
Specifications

Item	Performance Characteristics																											
Operating Temperature Range	-40~+105°C																											
Rate Voltage Range	4~63 VDC																											
Capacitance Range	0.1~470µF																											
Capacitance Tolerance	±20% (120Hz, +20°C)																											
Leakage current (+20°C, max.)	$I \leq 0.01 CV$ or $3(\mu A)$ After 1 minute, whichever is greater measured with rated working voltage applied.																											
Dissipation factor (tgδ)	<table border="1"> <tr> <td>Working Voltage(VDC)</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>D.F.(%)max</td> <td>25</td> <td>22</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>9</td> </tr> </table> (120Hz, +20°C)	Working Voltage(VDC)	4	6.3	10	16	25	35	50	63	D.F.(%)max	25	22	20	16	14	12	10	9									
Working Voltage(VDC)	4	6.3	10	16	25	35	50	63																				
D.F.(%)max	25	22	20	16	14	12	10	9																				
Low Temperature Characteristics (120Hz)	Impedance ratio max. <table border="1"> <tr> <td>Working Voltage(VDC)</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>Z-25°C / Z+20°C</td> <td>7</td> <td>4</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>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Working Voltage(VDC)	4	6.3	10	16	25	35	50	63	Z-25°C / Z+20°C	7	4	3	2	2	2	2	2	Z-40°C / Z+20°C	15	8	6	4	4	3	3	3
Working Voltage(VDC)	4	6.3	10	16	25	35	50	63																				
Z-25°C / Z+20°C	7	4	3	2	2	2	2	2																				
Z-40°C / Z+20°C	15	8	6	4	4	3	3	3																				
Load Life	Test conditions Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirement at +20°C Capacitance change : ≤±20% of the initial measured value(4v : ≤±30%) Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value																											
Shelf Life	Test conditions Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : None After test requirement at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes																											

Multiplier for Ripple Current vs. Frequency

CAP(µA) \ Frequency (Hz)	60(50)	120	400	1K	10K	50K-100K
CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < CAP ≤ 100	0.8	1	1.23	1.36	1.48	1.53
100 < CAP ≤ 1000	0.8	1	1.16	1.25	1.35	1.38

Diagram of Dimensions



ΦD	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
Φd	0.45		0.5	

SK series

Case Size

Voltage	4V		6.3V		10V		16V		25V	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7									4×7	17
6.8							4×7	20	4×7	21
10							4×7	30	4×7	30
									5×7	33
15					4×7	28	4×7	32	5×7	38
22	4×7	23	4×7	31	4×7	35	4×7	37	5×7	45
							5×7	42	6.3×7	48
33	4×7	26	4×7	32	4×7	40	4×7	45	5×7	52
			5×7	35	5×7	45	5×7	50	6.3×7	60
47	4×7	35	4×7	40	4×7	47	5×7	61	6.3×7	68
			5×7	47	5×7	51	6.3×7	67	8×7	72
68	5×7	55	5×7	55	5×7	60	6.3×7	72	6.3×7	75
					6.3×7	68				
100	5×7	58	5×7	65	5×7	80	6.3×7	95	8×7	115
			6.3×7	75	6.3×7	90	8×7	105		
220	6.3×7	65	6.3×7	90	6.3×7	105				
			8×7	120	8×7	150				
330	6.3×7	90	8×7	120						
470	8×7	120								

Voltage	35V		50V		63V	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1			4×7	1.5	4×7	1.5
0.15			4×7	1.8	4×7	1.8
0.22			4×7	2.5	4×7	2.5
0.33			4×7	3.5	4×7	3.5
0.47			4×7	5	4×7	6
0.68			4×7	7	4×7	7
1			4×7	10	4×7	12
1.5			4×7	13	4×7	14
2.2			4×7	19	4×7	19
3.3			4×7	24	5×7	25
4.7	4×7	22	4×7	27	5×7	29
			5×7	29	6.3×7	33
6.8	4×7	24	5×7	32	6.3×7	35
	5×7	28	6.3×7	33		
10	4×7	30	5×7	35	6.3×7	40
	5×7	35	6.3×7	38		
15	5×7	38	6.3×7	52	8×7	55
	6.3×7	45				
22	5×7	50	6.3×7	60	8×7	65
	6.3×7	58	8×7	63		
33	6.3×7	54	8×7	78		
	8×7	68				
47	8×7	80				
68	8×7	85				

Ripple Current (mA,rms) at 105°C 120KHz