

Standard Chip Aluminum Electrolytic Capacitor

SPKE09(105°C) Series

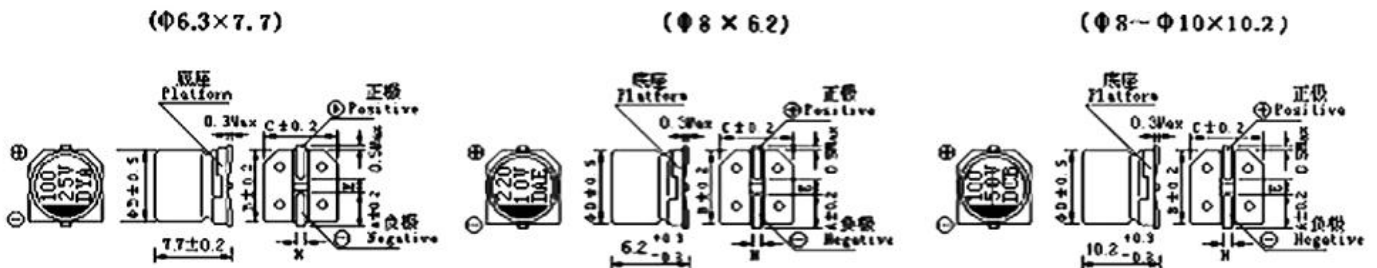
- Reflow soldering is available
- Available for high density surface mounting
- High stability and reliability
- Lifetime:105°C,2000Hr
- For the special designing requirement,please contact us.



Specifications

Item	Performance Characteristics																											
Operating Temperature Range	-55 to +105°C																											
Rated Voltage Range	6.3 to 100VDC																											
Capacitance Range	4.7 to 1500uF																											
Capacitance Tolerance	±20%(120Hz,+20°C)																											
Leakage Current (+20°C,max)	$I \leq 0.01 C_R U_R (\mu A)$ or 3uA Whichever is greater(after 2 minutes)																											
Dissipation Factor(120Hz 20°C)	<table border="1"> <tr> <td>$U_R(V)$</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>$\tan\delta$</td> <td>0.26</td> <td>0.2</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> </tr> </table>	$U_R(V)$	6.3	10	16	25	35	50	63	100	$\tan\delta$	0.26	0.2	0.16	0.14	0.12	0.12	0.12	0.12									
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Temperature Characteristics Impedance Ratio(120Hz)	<table border="1"> <tr> <td>$U_R(V)$</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <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> <td>3</td> <td>3</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> </tr> </table>	$U_R(V)$	6.3	10	16	25	35	50	63	100	Z-25°C/Z+20°C	4	3	2	2	2	2	3	3	Z-40°C/Z+20°C	8	6	4	4	3	3	4	4
	$U_R(V)$	6.3	10	16	25	35	50	63	100																			
	Z-25°C/Z+20°C	4	3	2	2	2	2	3	3																			
Z-40°C/Z+20°C	8	6	4	4	3	3	4	4																				
Load Life	After applying for 2000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.																											
	Capacitance change : ≤±20% of the initial measured value																											
	Dissipation factor : ≤200% of the initial specified value																											
	Leakage current : ≤The initial specified value																											
Shelf Life	After storage for 1000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.																											
	Capacitance change : ≤±20% of the initial measured value																											
	Dissipation factor : ≤200% of the initial specified value																											
	Leakage current : ≤200% of the initial specified value																											
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds.After removing from the hot plate and restored at room temperature,then meet the following requirement.																											
	Capacitance change : ≤±10% of the initial measured value																											
	Dissipation factor : ≤The initial specified value																											
	Leakage current : ≤The initial specified value																											

Dimensions & Marking



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Size	ø6.3x7.7	ø8x6.2	ø8x10.2	ø10x10.2
A	2.5	2.9	2.9	3.2
B	6.6	8.3	8.3	10.3
C	6.6	8.3	8.3	10.3
E	2.2	3.1	3.1	4.5
L	7.7	6.2	10.2	10.2
H	0.5~0.8	0.8~1.1		

■ Nominal capacitance, rated voltage, rated ripple current and case size table

DXL (mm) WV mA uF	6.3		10		16		25	
	DXL mm	Ripple mA	DXL mm	Ripple mA	DXL mm	Ripple mA	DXL mm	Ripple mA
100							8x6.2	91 105
220	6.3x7.7	105	6.3x7.7	110	8x6.2	125	8x10.2	175
	8x6.2	115	8x6.2	120	8x10.2	150		
330	6.3x7.7	110	8x10.2	196	8x10.2	195	10x10.2	240 (220)
	8x6.2	120					(8x10.2)	
470	8x10.2	210	8x10.2	210	10x10.2	295	10x10.2	280
	10x10.2	300			(8x10.2)	(230)		
1000	(8x10.2)	(230)	10x10.2	315	10x10.2	340		
1500	10x10.2	315						

DXL (mm) WV mA uF	35		50		63		100	
	DXL mm	Ripple mA	DXL mm	Ripple mA	DXL mm	Ripple mA	DXL mm	Ripple mA
4.7							6.3x7.7	35
							8x6.2	40
10					6.3x7.7	39	8x10.2 (6.3x7.7)	77 (35)
					8x6.2	45		
22			6.3x7.7	51	8x10.2	98	10x10.2 (8x10.2)	126 (84)
			8x6.2	54	(6.3x7.7)	(49)		
33	8x6.2	50	6.3x7.7	60	6.3x7.7	112	10x10.2	133
47	6.3x7.7	70	8x10.2	120	10x10.2	160	10x10.2	140
	8x6.2	78	(6.3x7.7)	(75)	(8x10.2)	(119)		
100	8x10.2	120	10x10.2	170	10x10.2	196		
	(6.3x7.7)	(84)	(8x10.2)	(140)				
220	10x10.2	220	10x10.2	220				
	(8x10.2)	(190)						
330	10x10.2	245						
470	10x10.2	280						

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