

Jamicon Series : SC

Teapo Series : SC

Low impedance · High Ripple Series

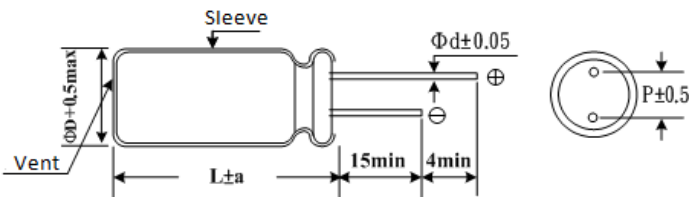


- Endurance: 105°C 1000~3000 hours
- Recommended Applications : Applicable for switching regulator of computer , especially for high frequency
- Corresponding product to RoHS

■ SPECIFICATIONS

Item	Characteristics																											
Category Temperature Range	-40 ~ +105°C																											
Rated Voltage Range	6.3 ~ 100VDC																											
Rated Capacitance Range	4.7 ~ 15000 μ F																											
Capacitance Tolerance	\pm 20 % (120Hz , 20°C)																											
Leakage Current (20°C)	I=0.01CV or 3 μ A whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V)																											
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</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 δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	100	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
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tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.																												
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>WV</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(120Hz)</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	100	Z(120Hz)	4	3	3	3	3	2	2	2	Z-25°C / Z+20°C	8	6	4	4	4	4	4	4
	WV	6.3	10	16	25	35	50	63	100																			
	Z(120Hz)	4	3	3	3	3	2	2	2																			
Z-25°C / Z+20°C	8	6	4	4	4	4	4	4																				
Z-40°C / Z+20°C	8	6	4	4	4	4	4	4																				
After applying rated voltage with ripple current for 1000~3000 hours at 105°C, the capacitors shall meet the following requirements.																												
Endurance	<table border="1"> <tr> <td>Capacitance change</td> <td colspan="2">Within \pm 20% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="2">Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="2">Not more than the specified value</td> </tr> </table>	Capacitance change	Within \pm 20% of initial value		D.F. (tan δ)	Not more than 200% of specified value		Leakage current	Not more than the specified value																			
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Life time (hours)	2000	3000																										
Shelf Life																												
After placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.																												

■ Dimensions [mm]



ΦD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.50	0.5	0.6	0.6	0.6	0.8	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0

■ Multiplier for Ripple Current

Cap (μ F)	Freq. (Hz)					
	50	120	300	1K	10K	100K
\leq 4.7 μ F	0.30	0.40	0.50	0.70	0.80	1.00
5.6 ~ 33 μ F	0.40	0.50	0.60	0.80	0.90	1.00
34 ~ 330 μ F	0.60	0.70	0.80	0.90	0.95	1.00
331 ~ 1000 μ F	0.65	0.90	0.90	0.98	1.00	1.00
1200 μ F Above	0.85	0.90	0.95	0.98	1.00	1.00

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)
6.3V (8)	150	5x11	200	0.420	16V (20)	220	8x11	550	0.140
	220	6.3x11	250	0.320		330	8x11	550	0.120
	270	6.3x11	250	0.220			8x15	750	0.100
	330	6.3x11	250	0.230		10x12.5	688	0.080	
		8x11	400	0.180		470	8x15	730	0.093
	470	6.3x11	440	0.180			10x12.5	800	0.085
		8x11	550	0.140		680	10x16	1050	0.064
	680	8x11	580	0.120		820	10x20	1100	0.044
		8x15	700	0.100		1000	10x16	1140	0.043
	820	8x20	750	0.085			10x20	1250	0.039
		1000	8x11	580		0.150	1200	10x25	1310
	8x15		700	0.085		13x20		1450	0.038
	8x20		800	0.069		1500	10x20	1200	0.045
	10x12.5		690	0.080			13x20	1600	0.034
	1200	10x16	1000	0.064		2200	10x30	1780	0.032
		1500	8x15	980			0.085	13x20	1720
	1500		8x20	800		0.051	3300	13x25	2000
		10x16	1070	0.055		13x40		2200	0.026
		10x20	1250	0.044		16x25	2200	0.024	
	2200	10x20	1220	0.051		4700	16x36	2550	0.019
		10x25	1310	0.048		6800	18x36	2800	0.019
		13x20	1450	0.043		25V (32)	10	5x11	50
	3300	10x25	1400	0.043			47	5x11	150
13x25		1700	0.035	56	5x11		150	0.420	
3900	13x25	1750	0.032	68	6.3x11		200	0.370	
4700	13x30	1570	0.033	100	6.3x11		250	0.220	
	13x25	1520	0.032	120	8x11		300	0.200	
	16x25	1800	0.028	150	8x11		550	0.140	
6800	16x32	2000	0.024	220	8x11		550	0.120	
8200	16x32	2350	0.019		8x15		750	0.100	
10000	16x36	2550	0.019	330	8x15		660	0.100	
15000	18x36	3000	0.019		8x20		800	0.069	
10V (13)	100	5x11	150	0.420	10x16		900	0.086	
	120	5x11	200	0.370	470		8x20	800	0.067
	150	6.3x11	250	0.320			10x12.5	760	0.086
	220	6.3x11	300	0.220	10x16		1050	0.064	
	330	8x11	550	0.140	680		10x20	1100	0.039
		8x11	550	0.120	820		10x20	1250	0.039
	470	8x15	750	0.100	1000		10x20	1160	0.047
		8x11	640	0.110			10x25	1310	0.042
	680	10x12.5	800	0.085	13x20		1450	0.038	
		10x16	1050	0.064	1200		13x25	1600	0.035
	1000	8x20	1080	0.065	1500		13x30	1750	0.032
		10x12.5	930	0.075			16x25	2000	0.028
		10x16	990	0.085	2200	13x30	1810	0.029	
		10x20	1100	0.050		16x25	1660	0.032	
	1200	10x20	1250	0.044	3300	16x32	2200	0.024	
	1500	10x20	1450	0.039		16x36	2540	0.019	
	2200	10x20	1330	0.047	18x36	2550	0.019		
		10x25	1450	0.039	4700	18x36	2800	0.019	
		13x20	1600	0.038	6800	18x36	2800	0.019	
	3300	10x30	1740	0.032	35V (44)	4.7	5x11	115	1.200
		13x25	2000	0.028		6.8	5x11	120	1.000
	4700	13x25	1860	0.028		10	5x11	140	0.900
		16x25	2200	0.024		15	5x11	170	0.690
6800	16x36	2550	0.019	22		5x11	190	0.600	
8200	18x36	2800	0.019	33		5x11	200	0.580	
	16V (20)	56	5x11	100		0.630	47	6.3x11	250
68		5x11	150	0.420		68	6.3x11	300	0.220
100	5x11	200	0.370	100		6.3x11	350	0.180	
120	6.3x11	250	0.320			8x11	450	0.140	
150	6.3x11	300	0.220	120		8x11	550	0.130	

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Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	
35V (44)	150	8x15	650	0.100	50V (63)	1000	16x25	1900	0.039	
	220	8x15	650	0.100		1200	16x32	2100	0.025	
		10x12.5	800	0.069		1500	16x36	2550	0.025	
		10x16	900	0.052		2200	18x40	2800	0.025	
	330	10x20	1050	0.044	63V (79)	10	5x11	140	1.850	
	470	10x20	1300	0.039		15	5x11	200	1.700	
	680	13x20	1400	0.038		22	6.3x11	250	1.200	
	820	13x20	1550	0.034		33	6.3x11	300	0.900	
	1000	13x25	1700	0.029		47	8x11	450	0.700	
	1200	16x25	1900	0.028		68	8x11	550	0.520	
	1500	16x25	2100	0.024		100	8x20	650	0.350	
	2200	16x32	2300	0.021		120	10x16	800	0.300	
		16x36	2550	0.019		150	10x16	1050	0.200	
18x36		2880	0.019	220		10x20	1300	0.150		
50V (63)	4.7	5x11	115	2.000		330	13x20	1400	0.100	
	6.8	5x11	120	1.850		470	13x25	1550	0.064	
	10	5x11	140	1.700		680	16x25	1700	0.052	
	15	5x11	180	1.200		820	16x32	1900	0.048	
	22	5x11	200	0.700		1000	16x32	2100	0.042	
	33	6.3x11	250	0.600	1200	16x36	2550	0.036		
	47	6.3x11	300	0.520	1500	18x36	2800	0.033		
	68	8x11	450	0.350	100V (125)	10	6.3x11	200	1.500	
	100	8x11	450	0.290		15	6.3x11	250	1.200	
		8x15	550	0.250		22	8x11	300	0.790	
		120	8x20	650		0.210	33	8x15	450	0.590
	150	10x12.5	800	0.160		47	10x16	550	0.350	
	220	10x16	1050	0.100		68	10x20	650	0.240	
		10x25	1050	0.068		100	13x20	800	0.180	
		330	10x20	1300		0.072	120	13x25	1050	0.150
	470	10x20	1390	0.075		150	13x25	1300	0.110	
		13x20	1400	0.060		220	16x25	1400	0.071	
		680	13x25	1550		0.050	330	16x32	1550	0.049
		820	16x25	1700		0.040	470	18x36	1770	0.038