

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

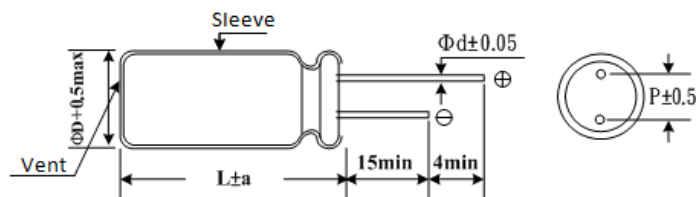
■ Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics								
Category Temperature Range	-40 ~ +105℃								
Rated Voltage Range	6.3 ~ 100VDC								
Rated Capacitance Range	4.7 ~ 15000 μ F								
Capacitance Tolerance	$\pm$ 20 % (120Hz , 20℃)								
Leakage Current (20℃)	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℃)	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
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)	WV Z(120Hz)	6.3	10	16	25	35	50	63	100
	Z-25℃ / Z+20℃	4	3	3	3	3	2	2	2
	Z-40℃ / Z+20℃	8	6	4	4	4	4	4	4
Endurance	After applying rated voltage with ripple current for 1000~3000 hours at 105℃ , the capacitors shall meet the following requirements.								
	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						
	Case size (Φ)		5 x 11 ~ 10 x 12.5		10 x 15higher				
	Life time (hours)		2000		3000				
Shelf Life	After placed at 105℃ without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.								

■ Dimensions [mm]



Φ D	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
Φ d	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
$\leq 4.7 \mu$ 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 (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω ,20℃) (100KHz)	Rated Voltage (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105℃) (100KHz)	Impedance (Ω ,20℃) (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			470	10x12.5	688	0.080
		8x11	400	0.180		8x15		730	0.093	
	470	6.3x11	440	0.180		680	10x12.5	800	0.085	
		8x11	550	0.140			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	0.042
	8x15		700	0.085		13x20		1450	0.038	
	8x20		800	0.069		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	0.033	
		8x20	800	0.051			13x25	2000	0.028	
		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	0.550
		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
	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
		16x32	2350	0.019				8x15	750	0.100
	8200	16x36	2550	0.019				330	8x15	660
	10000	16x36	2550	0.019			8x20		800	0.069
15000	18x36	3000	0.019	10x16	900		0.086			
10V (13)	100	5x11	150	0.420	25V (32)		8x20	800	0.067	
	120	5x11	200	0.370			470	10x12.5	760	0.086
	150	6.3x11	250	0.320				10x16	1050	0.064
	220	6.3x11	300	0.220			680	10x20	1100	0.039
	330	8x11	550	0.140			820	10x20	1250	0.039
	470	8x11	550	0.120			1000	10x20	1160	0.047
		8x15	750	0.100				10x25	1310	0.042
	680	8x11	640	0.110				13x20	1450	0.038
		10x12.5	800	0.085			1200	13x25	1600	0.035
	820	10x16	1050	0.064			1500	13x30	1750	0.032
	1000	8x20	1080	0.065				16x25	2000	0.028
		10x12.5	930	0.075				13x30	1810	0.029
		10x16	990	0.085			2200	16x25	1660	0.032
		10x20	1100	0.050				16x32	2200	0.024
	1200	10x20	1250	0.044			3300	16x36	2540	0.019
	1500	10x20	1450	0.039				18x36	2550	0.019
	2200	10x20	1330	0.047				4700	18x36	2800
		10x25	1450	0.039		6800	18x36	2800	0.019	
		13x20	1600	0.038		35V (44)	4.7	5x11	115	1.200
	3300	10x30	1740	0.032			6.8	5x11	120	1.000
		13x25	2000	0.028			10	5x11	140	0.900
	4700	13x25	1860	0.028			15	5x11	170	0.690
		16x25	2200	0.024			22	5x11	190	0.600
	6800	16x36	2550	0.019			33	5x11	200	0.580
	8200	18x36	2800	0.019			47	6.3x11	250	0.390
16V (20)	56	5x11	100	0.630	68		6.3x11	300	0.220	
	68	5x11	150	0.420	100		6.3x11	350	0.180	
	100	5x11	200	0.370			8x11	450	0.140	
	120	6.3x11	250	0.320	120		8x11	550	0.130	
	150	6.3x11	300	0.220						

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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
	330	10x16	900	0.052		2200	18x40	2800	0.025
		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
	3300	18x36	2880	0.019		220	10x20	1300	0.150
						330	13x20	1400	0.100
50V (63)	4.7	5x11	115	2.000		470	13x25	1550	0.064
	6.8	5x11	120	1.850		680	16x25	1700	0.052
	10	5x11	140	1.700		820	16x32	1900	0.048
	15	5x11	180	1.200		1000	16x32	2100	0.042
	22	5x11	200	0.700		1200	16x36	2550	0.036
	33	6.3x11	250	0.600		1500	18x36	2800	0.033
	47	6.3x11	300	0.520	100V (125)	10	6.3x11	200	1.500
	68	8x11	450	0.350		15	6.3x11	250	1.200
	100	8x11	450	0.290		22	8x11	300	0.790
		8x15	550	0.250		33	8x15	450	0.590
	120	8x20	650	0.210		47	10x16	550	0.350
	150	10x12.5	800	0.160		68	10x20	650	0.240
	220	10x16	1050	0.100		100	13x20	800	0.180
		10x25	1050	0.068		120	13x25	1050	0.150
	330	10x20	1300	0.072		150	13x25	1300	0.110
	470	10x20	1390	0.075		220	16x25	1400	0.071
		13x20	1400	0.060		330	16x32	1550	0.049
	680	13x25	1550	0.050		470	18x36	1770	0.038
	820	16x25	1700	0.040					