

Jamicon Series : TL

Teapo Series : SJ Low impedance · High Ripple Series

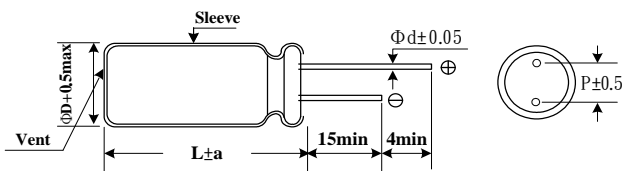
- Endurance: 105°C, 1000~5000 hours
- Recommended Applications : Applying to AV(TV, video, audio), monitor /computer, OA/HA /communication, transducer/inverter, adapter, switching power supply
- Corresponding product to RoHS



SPECIFICATIONS

Item	Characteristics																			
Category Temperature Range	-40 ~ +105°C																			
Rated Voltage Range	6.3 ~ 100VDC																			
Rated Capacitance Range	5.6 ~ 6800 μF																			
Capacitance Tolerance	± 20 % (120Hz, 20°C)																			
Leakage Current (20°C)	I ≤ 0.01CV or 3 μA, whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)																			
Dissipation Factor(MAX) (tan δ) (120Hz, 20°C)	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 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.																				
Low Temperature Stability Impedance Ratio (MAX)	WV	6.3	10	16	25	35	50	63	100											
	Z(120Hz)	6.3	10	16	25	35	50	63	100											
	Z(-25°C) / Z(20°C)	4	3	2	2	2	2	2	2											
	Z(-40°C) / Z(20°C)	8	6	4	3	3	3	3	3											
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.								Life time (hours)											
	Capacitance change	Within ± 25% of initial value							<table border="1"> <tr> <td colspan="2">Case size (Φ)</td> <td>L=7</td> <td>1000</td> </tr> <tr> <td rowspan="3"> </td> <td>Φ D ≤ 6.3</td> <td>2000</td> </tr> <tr> <td>Φ D = 8</td> <td>3000</td> </tr> <tr> <td>Φ D = 10</td> <td>5000</td> </tr> </table>	Case size (Φ)		L=7	1000		Φ D ≤ 6.3	2000	Φ D = 8	3000	Φ D = 10	5000
	Case size (Φ)		L=7	1000																
		Φ D ≤ 6.3	2000																	
Φ D = 8		3000																		
Φ D = 10		5000																		
D.F. (tan δ)	Not more than 200% of specified value																			
Leakage current	Not more than the specified value																			
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours (L=7mm is 500Hours) at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.																			

Dimensions [mm]



ΦD	4	5	6.3	8	10	13	16	18
P	1.5	2	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.45	0.5 (0.45)	0.5 (0.45)	0.6 (0.5)	0.6	0.6	0.8	0.8
a	1.0	1.5 (1.0)	1.5 (1.0)	1.5 (1.0)	1.5	2.0	2.0	2.0

() : L = 7

Multiplier for Ripple Current

Freq. (Hz)	60	120	400	1K	10K	100K
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50~63V	0.36	0.46	0.70	0.88	0.94	1.00
100V	0.34	0.44	0.65	0.86	0.92	1.00

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■STANDARD RATINGS

Rated Voltage (Surge Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Impedance (Ω ,20°C) (100KHz)	Ripple current (mA/rms105°C) (100KHz)	Rated Voltage (Surge Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Impedance (Ω ,20°C) (100KHz)	Ripple current (mA/rms105°C) (100KHz)
6.3V (8)	39	4x7	0.85	130	16V (20)	18	4x7	0.92	130
	47	5x7	0.7	175		27	5x7	0.61	190
	56	5x7	0.56	190		33	5x7	0.45	210
	68	5x7	0.43	210		39	5x11	0.43	220
	100	5x11	0.30	250		47	5x11	0.36	230
		6.3x7	0.35	240		56	5x11	0.30	250
	120	5x11	0.38	220		68	6.3x7	0.24	300
		6.3x7	0.29	270		100	6.3x11	0.16	370
	150	5x11	0.3	250			8x7	0.18	350
		6.3x7	0.23	300		120	6.3x11	0.13	410
	180	8x7	0.18	350			8x7	0.15	380
	220	6.3x11	0.13	410		150	8x11	0.12	510
	270	6.3x11	0.16	430		180	8x11	0.11	560
	330	8x11	0.13	540		220	8x11	0.10	620
	470	8x11	0.072	760		270	8x11	0.088	690
	560	8x11	0.072	790		330	8x11	0.072	760
	680	8x15	0.062	1000		470	8x15	0.056	1000
	820	8x15	0.056	1045			10x12.5	0.053	1030
	1000	8x20	0.053	1250		560	8x20	0.049	1140
	1200	8x20	0.041	1529			10x16	0.046	1300
		10x20	0.038	1820		680	8x20	0.041	1250
	1500	10x25	0.026	2150			10x16	0.038	1430
	1800	10x25	0.025	2240		820	10x20	0.032	1650
	2200	12.5x20	0.021	2360		1000	10x20	0.023	1820
	2700	13x20	0.022	2540		1200	10x25	0.022	2150
	3300	12.5x25	0.018	2770		1500	13x20	0.021	2360
	3900	12.5x30	0.016	3290		1800	13x25	0.02	2510
	4700	12.5x35	0.015	3400		2200	13x25	0.018	2770
5600	13x35	0.015	3400	2700	13x30	0.016	3290		
	16x25	0.016	3460		16x20	0.018	3140		
6800	16x25	0.016	3620	3300	13x35	0.015	3400		
10V (13)	27	4x7	0.89	130	3900	16x25	0.016	3460	
	33	5x7	0.75	160	25V (32)	15	4x7	0.94	130
	39	5x7	0.64	175		18	5x7	0.69	170
	47	5x7	0.53	190		27	5x7	0.46	210
	56	5x7	0.44	210		33	5x11	0.42	220
	68	6.3x7	0.44	210		39	5x11	0.36	230
	100	6.3x7	0.3	260		47	5x11	0.30	250
	120	6.3x7	0.23	300		56	6.3x7	0.24	300
	150	8x7	0.18	370		68	6.3x11	0.19	340
	180	8x7	0.15	380			8x7	0.22	340
	220	6.3x11	0.13	410		100	6.3x11	0.13	410
	270	8x11	0.12	580			8x7	0.15	440
	330	8x11	0.11	640		120	8x11	0.12	560
	470	8x11	0.072	760		150	8x11	0.105	630
	560	8x15	0.068	1000		180	8x11	0.088	690
		10x12.5	0.064	940		220	8x11	0.072	760
	680	10x12.5	0.053	1030		270	8x15	0.068	900
	820	8x20	0.05	1130			10x12.5	0.065	930
		10x16	0.046	1300		330	10x12.5	0.053	1030
	1000	8x20	0.041	1250		470	8x20	0.041	1250
		10x16	0.038	1430			10x16	0.038	1430
	1200	10x20	0.023	1820		560	10x20	0.032	1650
	1500	10x25	0.022	2150		680	10x20	0.023	1820
	1800	13x20	0.022	2230		820	10x25	0.022	2150
	2200	13x20	0.021	2360		1000	13x20	0.021	2360
	2700	13x25	0.02	2510		1200	13x25	0.02	2510
	3300	13x25	0.018	2770		1500	13x25	0.018	2770
	3900	13x30	0.016	3290		1800	13x30	0.016	3290
16x20		0.018	3140	16x20			0.018	3140	
4700	13x35	0.015	3400	2200	13x35	0.015	3400		
5600	16x25	0.016	3695	2700	16x25	0.016	3520		

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D×L(mm)	Impedance (Ω,20℃) (100KHz)	Ripple current (mA/rms105℃) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D×L(mm)	Impedance (Ω,20℃) (100KHz)	Ripple current (mA/rms105℃) (100KHz)
35V (44)	10	4x7	0.96	130	63V (79)	39	8x11	0.42	308
	15	5x7	0.57	190		47	8x11	0.35	380
	18	5x7	0.47	210		56	8x11	0.35	420
	27	5x11	0.37	230		68	8x15	0.26	488
	33	5x11	0.30	250			10x12.5	0.24	500
	39	6.3x7	0.25	300		82	8x15	0.22	536
	47	6.3x11	0.15	380			10x12.5	0.20	552
		8x7	0.19	350		100	10x16	0.16	640
	56	6.3x11	0.13	410		120	8x20	0.16	656
		8x7	0.16	380			10x16	0.15	760
	68	8x11	0.12	510		150	10x20	0.13	808
	100	8x11	0.105	620			13x16	0.13	832
	120	8x11	0.088	680		180	10x20	0.11	900
	150	8x11	0.072	760			13x16	0.11	912
	180	8x15	0.068	910		220	10x25	0.099	1080
		10x12.5	0.065	930		270	13x20	0.081	1200
	220	10x12.5	0.053	1030		330	13x25	0.058	1480
	270	8x20	0.041	1250		390	13x30	0.063	1640
	330	10x16	0.038	1430			16x20	0.073	1448
	470	10x20	0.023	1820		470	13x30	0.061	1800
560	10x25	0.022	2150	16x20	0.061		1592		
680	13x20	0.021	2360	560	13x35	0.047	1960		
820	13x25	0.020	2510		16x25	0.043	2190		
1000	13x25	0.018	2770	680	13x40	0.039	2224		
1200	13x30	0.016	3290		18x20	0.051	1960		
	16x20	0.018	3140	820	16x32	0.035	2720		
1500	13x35	0.015	3400		18x25	0.042	2480		
1800	16x25	0.016	3460	1000	16x36	0.028	3170		
50V (63)	5.6	4x7	1		130	18x32	0.034	3100	
	6.8	5x7	0.74	170	16x40	0.026	3270		
	10	5x7	0.5	210	1200	18x36	0.027	3300	
	15	6.3x7	0.38	220		18x40	0.024	3500	
		5x11	0.48	215	100V (125)	10	6.3x11	0.95	170
	22	5x11	0.34	240		15	6.3x 11	0.57	210
		6.3x7	0.26	300		22	8x11	0.44	330
	27	8x7	0.21	340		27	8x11	0.36	360
	33	8x7	0.17	380		33	8x15	0.3	375
	39	6.3x11	0.16	330		39	8x15	0.25	450
	47	6.3x11	0.15	360		47	10x12.5	0.24	450
	56	6.3x11	0.14	390		56	8x20	0.19	570
	68	8x11	0.11	600		68	10x16	0.18	580
	82	8x11	0.09	660		82	10x20	0.13	750
	100	8x11	0.074	730			13x16	0.13	740
	120	8x15	0.061	950		100	10x25	0.12	880
	150	10x12.5	0.061	980		120	13x20	0.094	1050
	180	8x20	0.046	1190		150	13x25	0.085	1100
	220	10x16	0.042	1370		180	13x25	0.071	1200
	270	10x20	0.03	1580		220	13x30	0.063	1410
330	10x25	0.028	1870	16x20			0.071	1300	
390	13x20	0.028	1870	270		13x35	0.052	1560	
470	13x20	0.027	2050			16x25	0.053	1600	
560	13x25	0.023	2410	18x20		0.069	1470		
680	13x30	0.021	2860	330	13x40	0.046	1700		
820	13x35	0.019	2960	390	16x32	0.041	1750		
	16x20	0.023	2730		18x25	0.049	1620		
1000	16x32	0.021	3350	470	16x36	0.033	1890		
63V (79)	15	5x11	1.19		136	18x32	0.039	1780	
	22	6.3x11	0.726	220	560	16x40	0.03	2080	
	27	6.3x11	0.58	192		18x36	0.031	2060	
	33	6.3x11	0.56	300	680	18x40	0.028	2570	