

Jamicon Series : WL

Teapo Series : WL Low impedance

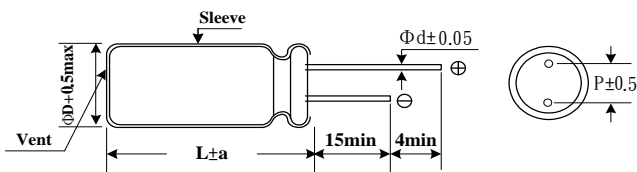
- Endurance: 105°C 1000~2000hours
- Recommended Applications : High quality, high reliability, CV products, dedicated to mobile phone charger.
- Corresponding product to RoHS



**■ SPECIFICATIONS**

Item	Characteristics																																
Category Temperature Range	-55~+105°C																																
Rated Voltage Range	6.3 ~ 63VDC																																
Rated Capacitance Range	4.7 ~ 10000 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 3 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), 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> </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>0.10</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.10																
	WV	6.3	10	16	25	35	50	63																									
tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.10																										
When nominal capacitance is over 1000 µF,tan δ shall be added 0.02 to the listed value with increase of every 1000 µ																																	
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> </tr> <tr> <td>Z(120Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-55°C / Z+20°C</td> <td>6</td> <td>6</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	Z(120Hz)								Z-25°C / Z+20°C	3	3	3	2	2	2	2	Z-55°C / Z+20°C	6	6	6	4	4	4	4
	WV	6.3	10	16	25	35	50	63																									
	Z(120Hz)																																
Z-25°C / Z+20°C	3	3	3	2	2	2	2																										
Z-55°C / Z+20°C	6	6	6	4	4	4	4																										
After applying rated voltage with rated ripple current for1000 ( ≥10 φ 2000 ) hours at 105°C, the capacitors shall meet the following requirements.																																	
Endurance	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 20% of initial value</td> <td>Dφ</td> <td>寿命时间</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>Not more than 200% of specified value</td> <td>≤ 8 φ</td> <td>1000小时</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> <td>≥ 10 φ</td> <td>2000小时</td> </tr> </table>	Capacitance change	Within ± 20% of initial value	Dφ	寿命时间	D.F. (tan δ)	Not more than 200% of specified value	≤ 8 φ	1000小时	Leakage current	Not more than the specified value	≥ 10 φ	2000小时																				
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	D.F. (tan δ)	Not more than 200% of specified value	≤ 8 φ	1000小时																													
Leakage current	Not more than the specified value	≥ 10 φ	2000小时																														
The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for1,000 hours at 105°C without voltage applied.																																	
Shelf Life																																	

**■ Dimensions [mm]**



φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0

**■ Multiplier for Ripple Current**

WV	Fréq. (Hz)	60	120	400	1K	10K	100K
	10 ~ 16V	0.45	0.60	0.83	0.94	0.98	1.00
	25 ~ 35V	0.38	0.50	0.75	0.9	0.97	1.00
	50V	0.36	0.46	0.70	0.88	0.94	1.00

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**STANDARD RATINGS**

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	Impedance (Ω,-10°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	Impedance (Ω,-10°C) (100KHz)	
6.3V (8)	150	5x11	250	0.219	0.656	10V (13)	820	8x15	990	0.076	0.228	
	180	5x11	270	0.190	0.571			10x12.5	1040	0.076	0.228	
	220	5x11	300	0.162	0.487		1000	8x20	1240	0.068	0.204	
	270	5x15	380	0.148	0.444			10x16	1280	0.068	2.024	
		6.3x15	380	0.148	0.444		1200	10x20	1540	0.059	0.177	
	330	5x15	420	0.130	0.389			12.5x15	1480	0.059	0.148	
		6.3x11	420	0.130	0.389		1500	10x25	1830	0.035	0.106	
	390	6.3x15	520	0.117	0.351			12.5x18	1720	0.035	0.089	
		8x11	530	0.117	0.351		1800	10x25	2000	0.031	0.094	
	470	6.3x15	570	0.106	0.319			12.5x18	1880	0.031	0.078	
		8x11	580	0.106	0.319		2200	10x28	2250	0.027	0.082	
	560	6.3x15	620	0.094	0.283			16x15	1960	0.027	0.068	
		8x11	630	0.094	0.283		2700	12.5x20	2250	0.025	0.062	
	680	6.3x15	680	0.084	0.252			16x15	2100	0.025	0.062	
		8x11	700	0.084	0.252		3300	12.5x25	2650	0.023	0.057	
	820	8x15	860	0.077	0.230			18x15	2300	0.023	0.057	
		1000	10x12.5	900	0.077		0.230	3900	12.5x30	3030	0.022	0.055
	8x15		950	0.069	0.206		16x20		2670	0.022	0.055	
	1200	10x12.5	990	0.069	0.206		4700	12.5x35	3210	0.021	0.053	
		8x20	1180	0.059	0.178			16x25	3050	0.021	0.053	
	10x16		1210	0.059	0.178		5600	12.5x40	3550	0.020	0.049	
	1500	10x20	1450	0.036	0.107			18x20	2940	0.020	0.049	
		12.5x15	1390	0.036	0.089		6800	16x32	3680	0.019	0.047	
	1800	10x20	1590	0.031	0.094			18x25	3390	0.019	0.047	
		12.5x15	1520	0.031	0.078		8200	16x36	4010	0.018	0.044	
	2200	10x25	1880	0.028	0.083			18x32	3870	0.018	0.044	
		12.5x18	1770	0.028	0.069		10000	18x36	4190	0.017	0.042	
	2700	10x28	2140	0.025	0.075			16V (20)	56	5x11	190	0.253
		16x15	1870	0.025	0.063		68		5x11	210	0.221	0.662
	3300		12.5x20	2150	0.023		0.058		82	5x11	230	0.203
16x15		2010	0.023	0.058	100	5x11	250		0.183	0.550		
3900	12.5x25	2520	0.022	0.055	120	5x15	320		0.156	0.469		
	18x15	2190	0.022	0.055		6.3x11	320		0.156	0.469		
4700	12.5x30	2860	0.021	0.053	150	5x15	360		0.128	0.383		
	16x20	2520	0.021	0.053		6.3x11	350		0.128	0.383		
5600	12.5x35	3060	0.020	0.050	180	5x15	390		0.111	0.333		
	16x25	2900	0.020	0.050		6.3x11	390		0.111	0.333		
6800	12.5x40	3450	0.019	0.047	220	5x15	430		0.095	0.284		
	18x20	2850	0.019	0.047		6.3x11	430		0.095	0.284		
8200	16x32	3540	0.018	0.045	270	6.3x15	550		0.086	0.259		
	18x25	3260	0.018	0.045		8x11	550		0.086	0.259		
10000	16x36	3880	0.017	0.043	330	6.3x15	600		0.086	0.227		
	18x32	3740	0.017	0.043		8x11	610		0.086	0.227		
10V (13)	100	5x11	230	0.312	0.937	390	8x15		750	0.068	0.205	
	120	5x11	250	0.266	0.798		10x12.5		790	0.068	0.205	
	150	5x11	280	0.218	0.653	470	8x15		820	0.062	0.186	
	180	5x15	360	0.189	0.568		10x12.5		860	0.062	0.186	
		6.3x11	350	0.189	0.568	560	8x20	1020	0.055	0.165		
	5x15		400	0.161	0.484		10x16	1050	0.055	0.165		
	220	6.3x11	390	0.161	0.484	680	8x20	1120	0.049	0.147		
		5x15	440	0.147	0.442		10x16	1150	0.049	0.147		
	270	6.3x11	430	0.147	0.442	820	8x20	1230	0.045	0.134		
		6.3x15	550	0.129	0.387		10x16	1270	0.045	0.134		
	330	8x11	560	0.129	0.387	1000	10x20	1540	0.040	0.120		
		6.3x15	600	0.116	0.349		12.5x15	1480	0.040	0.100		
	390	8x11	610	0.116	0.349	1200	10x25	1870	0.035	0.107		
		6.3x15	660	0.106	0.317		12.5x18	1750	0.035	0.087		
	470	8x11	670	0.106	0.317	1500	10x28	2100	0.029	0.088		
		6.3x15	720	0.094	0.281		16x15	1830	0.029	0.074		
	560	8x11	730	0.094	0.281	1800	12.5x20	2140	0.026	0.065		
		8x15	900	0.083	0.250		16x15	2000	0.026	0.065		
	680	10x12.5	950	0.083	0.250	2200	12.5x25	2500	0.023	0.057		

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	Impedance (Ω,-10°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	Impedance (Ω,-10°C) (100KHz)	
16V (20)	2200	18x15	2170	0.023	0.057	35V (44)	33	5x11	200	0.353	1.058	
	2700	12.5x30	2890	0.021	0.052		39	5x11	210	0.320	0.096	
		16x20	2540	0.021	0.052		47	5x11	230	0.283	0.849	
	3300	12.5x35	3130	0.019	0.048		56	5x15	290	0.252	0.757	
		16x25	2970	0.019	0.048			6.3x11	290	0.252	0.757	
	3900	12.5x40	3500	0.018	0.046		68	5x15	320	0.220	0.660	
		18x20	2900	0.018	0.046			6.3x11	320	0.220	0.660	
	4700	16x32	3560	0.016	0.040		82	5x15	360	0.203	0.608	
		18x25	3280	0.016	0.040			6.3x11	350	0.203	0.608	
	5600	16x36	3880	0.015	0.038		100	6.3x15	450	0.183	0.549	
18x32		3740	0.015	0.038	8x11			450	0.183	0.549		
25V (32)	47	5x11	220	0.283	0.085		120	6.3x15	490	0.109	0.327	
	56	5x11	240	0.253	0.758			8x11	500	0.109	0.327	
	68	5x11	270	0.020	0.661			150	6.3x15	550	0.089	0.268
	82	5x15	340	0.203	0.609				8x11	550	0.089	0.268
		6.3x11	330	0.203	0.609			180	8x15	680	0.078	0.233
	100	5x15	370	0.183	0.549				10x12.5	720	0.078	0.233
		6.3x11	370	0.183	0.549			220	8x15	750	0.066	0.198
	120	5x15	410	0.156	0.468				10x12.5	790	0.066	0.198
		6.3x11	400	0.156	0.468			270	8x20	950	0.060	0.181
	150	6.3x15	510	0.128	0.383	10x16			970	0.060	0.181	
		8x11	520	0.128	0.383	330		8x20	1050	0.053	0.159	
	180	6.3x15	560	0.111	0.333			10x16	1080	0.053	0.159	
		8x11	570	0.111	0.333	390		10x20	1290	0.048	0.143	
	220	6.3x15	620	0.095	0.284			12.5x15	1240	0.048	0.119	
		8x11	630	0.095	0.284	470		10x20	1420	0.043	0.130	
	270	8x15	790	0.086	0.259			12.5x15	1360	0.043	0.108	
		10x12.5	830	0.086	0.259	560		10x25	1710	0.038	0.115	
	330	8x15	870	0.076	0.227			12.5x18	1610	0.038	0.096	
		10x12.5	910	0.076	0.227	680		10x28	1990	0.034	0.103	
	390	8x20	1080	0.068	0.205			16x15	1730	0.034	0.086	
		10x16	1100	0.068	0.205	820	10x30	2250	0.031	0.094		
	470	8x20	1180	0.062	0.186		16x15	1900	0.031	0.078		
		10x16	1210	0.062	0.186	1000	12.5x25	2480	0.028	0.070		
	560	8x20	1290	0.055	0.165		18x15	2150	0.028	0.070		
		10x16	1320	0.055	0.165	1200	12.5x30	2940	0.024	0.061		
	680	10x20	1610	0.049	0.147		16x20	2590	0.024	0.061		
		12.5x15	1550	0.049	0.122	1500	12.5x35	3160	0.021	0.051		
	820	10x25	1950	0.045	0.134		16x25	3000	0.021	0.051		
		12.5x18	1830	0.045	0.110	1800	12.5x40	3690	0.018	0.045		
	1000	10x28	2270	0.040	0.120		18x20	3050	0.018	0.045		
		16x15	1980	0.040	0.100	2200	16x32	3810	0.016	0.040		
	1200	12.5x20	2320	0.035	0.104		18x25	3510	0.016	0.040		
		16x15	2170	0.035	0.087	50V (63)	4.7	5x11	85	1.061	3.182	
	1500	12.5x25	2710	0.029	0.074		6.8	5x11	100	0.916	2.749	
		18x15	2480	0.029	0.074		10	5x11	130	0.831	2.493	
	1800	12.5x30	3230	0.026	0.065		15	5x11	150	0.609	1.828	
		16x20	2840	0.026	0.065		18	5x11	170	0.531	1.593	
	2200	12.5x35	3470	0.023	0.057		22	5x11	190	0.453	1.360	
		16x25	3290	0.023	0.057		27	5x11	210	0.100	1.200	
	2700	12.5x40	3910	0.021	0.052		33	5x11	230	0.353	1.058	
18x20		3240	0.021	0.052	39		5x15	290	0.320	0.959		
3300	16x32	4100	0.019	0.047			6.3x11	280	0.320	0.959		
	18x25	3770	0.019	0.047	47		5x15	310	0.283	0.849		
3900	16x36	4530	0.018	0.046			6.3x11	310	0.283	0.849		
	18x32	4360	0.018	0.046	56		5x15	340	0.252	0.757		
4700	18x36	4720	0.016	0.040			6.3x11	340	0.252	0.757		
35V (44)	10	5x11	110	0.832	2.495		68	6.3x15	430	0.220	0.660	
	15	5x11	120	0.610	1.829			8x11	430	0.220	0.660	
	18	5x11	150	0.531	1.594		82	6.3x15	470	0.203	0.608	
	22	5x11	160	0.454	1.361			8x11	480	0.203	0.608	
	27	5x11	180	0.400	1.201		100	8x15	590	0.183	0.548	

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Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance ( $\Omega$ ,20°C) (100KHz)	Impedance ( $\Omega$ ,-10°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (mA/rms 105°C) (100KHz)	Impedance ( $\Omega$ ,20°C) (100KHz)	Impedance ( $\Omega$ ,-10°C) (100KHz)	
50V (63)	100	10x12.5	620	0.183	0.548	50V (63)	820	12.5x35	2880	0.031	0.078	
	120	8x15	650	0.109	0.327			16x25	2730	0.031	0.078	
		10x12.5	680	0.109	0.327			12.5x40	3390	0.028	0.070	
	150	8x20	820	0.089	0.268			18x20	2800	0.028	0.070	
		10x16	840	0.089	0.268			16x32	3660	0.024	0.061	
	180	8x20	900	0.078	0.233			18x25	3370	0.024	0.061	
		10x16	920	0.078	0.233		16x36	4040	0.021	0.051		
	220	8x20	1000	0.066	0.198		18x32	3890	0.021	0.051		
		10x16	1020	0.066	0.198		63V (79)	10	5x11	130	0.997	2.991
	270	10x20	1250	0.060	0.181			22	5x11	190	0.544	1.632
		12.5x15	1200	0.060	0.151			33	6.3x11	210	0.544	1.632
	330	10x25	1530	0.053	0.159				5x15	260	0.423	1.269
		12.5x18	1430	0.053	0.132	6.3x11		260	0.423	1.269		
	390	10x25	1660	0.048	0.143	47		8x11	360	0.339	1.018	
		12.5x18	1560	0.048	0.119	68		8x15	490	0.220	0.660	
	470	12.5x20	1790	0.043	0.108	100		10x12.5	620	0.183	0.548	
		16x15	1680	0.043	0.108	220		10x20	1130	0.094	0.283	
	560	12.5x25	2150	0.038	0.096	330		10x30	1660	0.076	0.227	
18x15		1870	0.038	0.096	470	12.5x25		1970	0.062	0.155		
680	12.5x30	2580	0.034	0.086	680	12.5x35		2760	0.039	0.098		
	16x20	2260	0.034	0.086	1000	16x25	3020	0.032	0.080			