

Jamicon Series : TT

Teapo Series : TA Low impedance · Long life Series

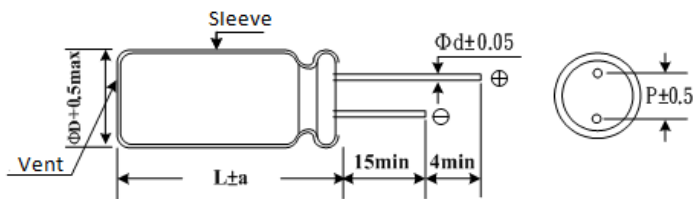
- Endurance:105°C 4000~10000hours
- Recommended Applications : Applicable for SMPS, Adaptor,Charger,Monitor/Computer
- Corresponding product to RoHS



SPECIFICATIONS

Item	Characteristics																																				
Category Temperature Range	-40 ~ +105°C																																				
Rated Voltage Range	6.3~100VDC																																				
Rated Capacitance Range	22 ~ 8200 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></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>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	100	Z((120HZ)									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
	WV	6.3	10	16	25	35	50	63	100																												
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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																													
After applying rated voltage with rated ripple current for 4000~10000hours at 105°C, the capacitors shall meet the following requirements.																																					
Endurance	<table border="1"> <tr> <td>Capacitance change</td> <td colspan="3">Within $\pm 25\%$ of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="3">Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="3">initial specified value or less</td> </tr> </table>	Capacitance change	Within $\pm 25\%$ of initial value			D.F. (tan δ)	Not more than 200% of specified value			Leakage current	initial specified value or less																										
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<table border="1"> <tr> <td>ΦD</td> <td>5~6.3 Φ</td> <td>8~10 Φ</td> <td>12.5~18 Φ</td> </tr> <tr> <td>6.3~10(V)</td> <td>4000hrs</td> <td>6000hrs</td> <td>8000hrs</td> </tr> <tr> <td>16~100(V)</td> <td>5000hrs</td> <td>7000hrs</td> <td>10000hrs</td> </tr> </table>	Φ D	5~6.3 Φ	8~10 Φ	12.5~18 Φ	6.3~10(V)	4000hrs	6000hrs	8000hrs	16~100(V)	5000hrs	7000hrs	10000hrs																									
Φ D	5~6.3 Φ	8~10 Φ	12.5~18 Φ																																		
6.3~10(V)	4000hrs	6000hrs	8000hrs																																		
16~100(V)	5000hrs	7000hrs	10000hrs																																		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 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]



Φ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φ d	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

Freq. (Hz)	120	1K	10K	100K
22 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1800	0.60	0.87	0.95	1.00
2200 ~ 3900	0.75	0.90	0.95	1.00
4700 μ F Higher	0.85	0.95	0.98	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	210	0.580	16V (20)	2700	16x20	2530	0.027	
	330	6.3x11	340	0.220		3300	13x35	2880	0.020	
	680	8x11	640	0.130		3900	13x40	3350	0.017	
	820	10x12.5	865	0.080			16x25	2930	0.021	
	1000	8x15	840	0.087			18x20	2860	0.026	
	1200	8x20	1050	0.069		4700	16x32	3450	0.017	
		10x15	1210	0.060			18x25	3140	0.019	
	1500	10x20	1400	0.046		5600	16x36	3610	0.015	
	1800	13x16	1450	0.049			18x32	4170	0.015	
	2200	10x25	1650	0.042		6800	16x40	4080	0.013	
	2700	10x30	1910	0.031		8200	18x36	4220	0.014	
	3300	13x20	1900	0.035		25V (32)	47	5x11	210	0.580
	3900	13x25	2230	0.027			100	6.3x11	340	0.220
	4700	13x30	2650	0.024			220	6.3x12	400	0.220
	5600	13x35	2880	0.020				8x11	640	0.130
		16x20	2530	0.027			330	8x15	840	0.087
6800	13x40	3350	0.017	10x12.5	865			0.080		
	16x25	2930	0.021	470	8x20		1050	0.069		
	18x20	2860	0.026		10x12.5		865	0.080		
8200	16x32	3450	0.017		10x15		1210	0.060		
10V (13)	100	5x11	210	0.580	35V (44)		33	5x11	210	0.580
	220	6.3x11	340	0.220			56	6.3x11	340	0.220
	470	6.3x12	450	0.220			100	6.3x11	340	0.220
		8x11	640	0.130				8x11	580	0.150
	680	8x15	840	0.087				150	8x11	640
		10x12.5	865	0.080			220		8x12	640
	1000	8x16	840	0.087				8x15	840	0.087
		10x12.5	865	0.080		10x12.5		865	0.080	
		8x20	1050	0.069		270	8x20	1050	0.069	
	10x15	1210	0.060	330			10x15	1210	0.060	
	1200	10x20	1400			0.046	470	10x16	1210	0.060
	1500	10x25	1650	0.042		10x20		1400	0.046	
		13x16	1450	0.049		13x16		1450	0.049	
	2200	10x30	1910	0.031		560	10x25	1650	0.042	
		13x20	1900	0.035			680	10x30	1910	0.031
	3300	13x25	2230	0.027		13x20		1900	0.035	
13x30		2650	0.024	1000	13x20	1900		0.035		
3900	16x20	2530	0.027		13x25	2230	0.027			
	4700	13x35	2880	0.020	1200	13x30	2650	0.024		
13x40		3350	0.017	16x20		2530	0.027			
5600	16x25	2930	0.021	1500	13x35	2880	0.020			
	18x20	2860	0.026		2700	13x40	3350	0.017		
6800	16x32	3450	0.017	1800		13x40	3350	0.017		
	18x25	3140	0.019							
8200	16x36	3610	0.015							
	18x32	4170	0.015							
16V (20)	56	5x11	210	0.580						
	100	5x11	210	0.580						
	120	6.3x11	340	0.220						
	220	6.3x11	340	0.220						
	330	8x11	640	0.130						
	470	8x15	840	0.087						
		10x12.5	865	0.080						
	680	8x20	1050	0.069						
		10x15	1210	0.060						
	1000	10x20	1400	0.046						
		13x16	1450	0.049						
	1200	10x25	1650	0.042						
1500	10x30	1910	0.031							
	13x20	1900	0.035							
2200	13x20	1900	0.035							
	13x25	2230	0.027							
2700	13x30	2650	0.024							

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω,20°C) (100KHz)	
35V (44)	1800	16x25	2930	0.021	63V (79)	470	16x20	1040	0.091	
		18x20	2860	0.026			560	13x35	1050	0.083
	2200	16x25	2930	0.021		680		16x25	1250	0.073
		16x32	3450	0.017			13x40	1180	0.071	
		18x25	3140	0.019		820	18x20	1240	0.080	
		16x36	3610	0.015			16x32	1570	0.054	
	3300	18x32	4170	0.015		1000	18x25	1490	0.057	
		16x40	4080	0.013			16x36	1790	0.045	
	3900	18x36	4220	0.014		1200	18x32	1630	0.047	
		18x40	4280	0.012			16x40	2020	0.040	
50V (63)	10	5x11	100	1.200	80(100)	68	10x12.5	288	0.430	
	22	5x11	180	0.700		100	10x16	357	0.310	
	33	6.3x11	245	0.490		120	10x20	466	0.210	
	47	6.3x11	300	0.520		150	10x25	490	0.200	
	56	6.3x11	320	0.300			13x16	466	0.230	
	100	8x11	555	0.170		180	10x25	510	0.190	
	120	8x15	730	0.120		220	13x20	690	0.160	
	150	10x12.5	760	0.120		330	13x25	784	0.120	
	180	8x20	910	0.091			16x20	800	0.140	
	220	8x20	910	0.091		390	13x30	905	0.100	
		10x16	1050	0.084			13x25	1050	0.083	
	270	10x20	1220	0.060		470	16x25	1250	0.083	
		13x16	1260	0.061			18x20	1240	0.080	
	330	10x20	1400	0.058		560	13x40	1180	0.071	
			1440	0.055			680	16x32	1570	0.054
		470	10x30	1690		0.043		18x25	1490	0.057
			13x20	1660		0.045	820	16x36	1790	0.045
	560	16x16	1690	0.055		18x32		1790	0.045	
		13x25	1950	0.034		1000	16x40	2020	0.040	
	18x16	1930	0.054	18x36			2020	0.040		
	680	13x30	2310	0.030		1200	18x40	2330	0.036	
	820	13x35	2510	0.025		100V (125)	15	6.3x11	115	1.200
			2210	0.034			27	8x12	232	0.630
		13x40	2920	0.021			39	8x15	300	0.450
			2555	0.025			47	10x12.5	288	0.430
		18x20	2490	0.036			56	8x20	362	0.330
			3010	0.022			68	10x16	357	0.310
		1200	16x32	3010			0.022	82	10x20	466
18x25			2740	0.026	13x16		466		0.230	
1500		16x36	3150	0.019	100		10x25	531	0.200	
1800		16x40	3710	0.016	120		10x30	663	0.150	
	18x32	3635	0.021	13x20			690	0.160		
2200	18x36	3680	0.017	150	16x16		795	0.140		
	18x40	3800	0.014		13x25		784	0.120		
63V (79)	15	5x11	55	2.300	180		18x16	920	0.120	
	33	6.3x11	115	1.200			220	13x30	905	0.100
	56	8x12	232	0.630	16x20			1040	0.091	
	82	8x15	300	0.450	270		13x35	1050	0.083	
		10x12.5	288	0.430			16x25	1250	0.073	
	120	8x20	362	0.330	330		13x40	1180	0.071	
		10x16	357	0.310			18x20	1240	0.080	
	180	10x20	466	0.210	390		16x32	1570	0.054	
		13x16	466	0.230			18x25	1490	0.057	
	220	10x25	531	0.200	470		16x36	1790	0.045	
10x30		663	0.150	18x32			1630	0.047		
270	13x20	690	0.160	560	16x40		2020	0.040		
	16x16	795	0.140	680	18x36		2020	0.040		
	330	13x25	784	0.120	820		18x40	2330	0.036	
		18x16	920	0.120						
470	13x30	905	0.100							