

Jamicon Series : TT

Teapo Series : TA Low impedance · Long life Series

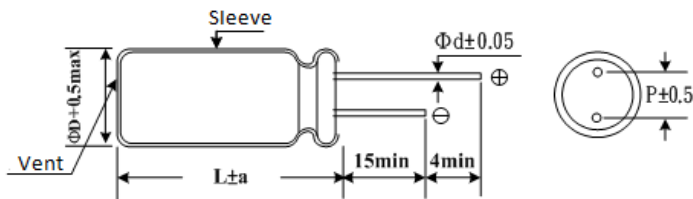
- Endurance:105°C 4000~10000hours
- Recommended Applications : Applicable for SMPS, Adaptor,Charger,Monitor/Computer
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics																																				
Category Temperature Range	-40 ~ +105°C																																				
Rated Voltage Range	6.3~100VDC																																				
Rated Capacitance Range	22 ~ 8200 µF																																				
Capacitance Tolerance	± 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> <p>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.</p>	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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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																													
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																													
Endurance	<p>After applying rated voltage with rated ripple current for 4000~10000hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance change</td> <td colspan="3">Within ± 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> <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>	Capacitance change	Within ± 25% of initial value			D.F. (tan δ)	Not more than 200% of specified value			Leakage current	initial specified value or less			ΦD	5~6.3 Φ	8~10 Φ	12.5~18 Φ	6.3~10(V)	4000hrs	6000hrs	8000hrs	16~100(V)	5000hrs	7000hrs	10000hrs												
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6.3~10(V)	4000hrs	6000hrs	8000hrs																																		
16~100(V)	5000hrs	7000hrs	10000hrs																																		
Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as load life.																																				

■ Dimensions [mm]



ΦD	5	6.3	8	10	13	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

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
	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	680		10x20	1400	0.046	
	220	6.3x11	340	0.220	820		13x16	1450	0.049	
	470	6.3x12	450	0.220	1000		10x25	1650	0.042	
		8x11	640	0.130			10x20	1400	0.046	
	680	8x15	840	0.087	10x30		1910	0.031		
		10x12.5	865	0.080	13x20		1900	0.035		
	1000	8x16	840	0.087	1500		13x25	2230	0.027	
		10x12.5	865	0.080		13x30	2650	0.024		
		8x20	1050	0.069	1800	16x20	2530	0.027		
	10x15	1210	0.060	2200	13x25	2230	0.027			
	1200	10x20	1400		0.046	13x35	2880	0.020		
	1500	10x25	1650	0.042	18x20	2860	0.026			
		13x16	1450	0.049	2700	13x40	3350	0.017		
	2200	10x30	1910	0.031		16x25	2930	0.021		
		13x20	1900	0.035	3300	16x32	3450	0.017		
	3300	13x25	2230	0.027		18x25	3140	0.019		
3900	13x30	2650	0.024	3900	16x36	3610	0.015			
16x20	2530	0.027	18x32		4170	0.015				
4700	13x35	2880	0.020	4700	16x40	4080	0.013			
5600	13x40	3350	0.017		18x36	4220	0.014			
	16x25	2930	0.021	5600	18x40	4280	0.012			
18x20	2860	0.026	35V (44)	33	5x11	210	0.580			
6800	16x32	3450		0.017	56	6.3x11	340	0.220		
8200	18x25	3140		0.019	100	6.3x11	340	0.220		
	16x36	3610		0.015		8x11	580	0.150		
18x32	4170	0.015		150	8x11	640	0.130			
16V (20)	56	5x11		210	0.580	220	8x12	640	0.130	
	100	5x11		210	0.580		8x15	840	0.087	
	120	6.3x11		340	0.220		10x12.5	865	0.080	
	220	6.3x11		340	0.220	270	8x20	1050	0.069	
	330	8x11		640	0.130	330	10x15	1210	0.060	
	470	8x15		840	0.087	470	10x16	1210	0.060	
		10x12.5		865	0.080		10x20	1400	0.046	
	680	8x20		1050	0.069	13x16	1450	0.049		
		10x15		1210	0.060	560	10x25	1650	0.042	
	1000	10x20		1400	0.046	680	10x30	1910	0.031	
		13x16		1450	0.049		13x20	1900	0.035	
	1200	10x25	1650	0.042	1000	13x20	1900	0.035		
		10x30	1910	0.031		13x25	2230	0.027		
	1500	13x20	1900	0.035	1200	13x30	2650	0.024		
		13x20	1900	0.035		16x20	2530	0.027		
	2200	13x25	2230	0.027	1500	13x35	2880	0.020		
2700		13x30	2650	0.024	1800	13x40	3350	0.017		

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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	
		1000	13x40	2920			0.021	39	8x15	300	0.450
			16x25	2555			0.025	47	10x12.5	288	0.430
		1200	18x20	2490			0.036	56	8x20	362	0.330
			16x32	3010			0.022	68	10x16	357	0.310
		1500	18x25	2740			0.026	82	10x20	466	0.210
16x36			3150	0.019	13x16		466		0.230		
1800		16x40	3710	0.016	100		10x25	531	0.200		
		18x32	3635	0.021	120		10x30	663	0.150		
2200	18x36	3680	0.017	13x20			690	0.160			
	18x40	3800	0.014	150	16x16		795	0.140			
63V (79)	15	5x11	55	2.300	180		13x25	784	0.120		
	33	6.3x11	115	1.200			18x16	920	0.120		
	56	8x12	232	0.630	220		13x30	905	0.100		
			300	0.450			16x20	1040	0.091		
	82	10x12.5	288	0.430	270		13x35	1050	0.083		
		8x20	362	0.330			16x25	1250	0.073		
	120	10x16	357	0.310	330		13x40	1180	0.071		
		10x20	466	0.210			18x20	1240	0.080		
	180	13x16	466	0.230	390		16x32	1570	0.054		
		10x25	531	0.200			18x25	1490	0.057		
	220	10x30	663	0.150	470		16x36	1790	0.045		
		13x20	690	0.160			18x32	1630	0.047		
			16x16	795	0.140		560	16x40	2020	0.040	
	330	13x25	784	0.120	680		18x36	2020	0.040		
18x16		920	0.120	820	18x40		2330	0.036			
470	13x30	905	0.100								