

Jamicon Series : TK

Teapo Series : SH

Standard Series

550V
LINE
UP



■ Endurance: 105°C 2000hours

■ Recommended Applications :For high quality , reliability application, high CV product

■ Corresponding product to RoHS

SPECIFICATIONS

Item	Characteristics																																																			
	-55~+105°C				-40~+105°C				-25~+105°C																																											
Category Temperature Range	-55~+105°C				-40~+105°C				-25~+105°C																																											
Rated Voltage Range	6.3 ~ 100VDC				160 ~ 450VDC				500~550VDC																																											
Rated Capacitance Range	1~ 22000 µF				1 ~ 470 µF				2.2~82 µF																																											
Capacitance Tolerance	± 20 % (120Hz , 20°C)				± 20 % (120Hz , 20°C)				± 20 % (120Hz , 20°C)																																											
Leakage Current (20°C)	I=0.01CV or 3(µA)whichever is greater.				I=0.03CV+10(µA)				I=0.04CV+100(µA)																																											
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	(After rated voltage applied for 2 minutes)I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)																																																			
	WV	6.3	10	16	25	35	50	63~80	100	160~250	350~450	500~550																																								
	tan δ	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.08	0.15	0.20	0.25																																								
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)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35~100</th> <th>160~250</th> <th>350~400</th> <th>450</th> <th>500~550</th> </tr> </thead> <tbody> <tr> <td>Z(120Hz)</td> <td></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>3</td> <td>4</td> <td>4</td> <td>6</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>4</td> <td>10</td> <td>—</td> <td>—</td> </tr> </tbody> </table>												WV	6.3	10	16	25	35~100	160~250	350~400	450	500~550	Z(120Hz)										Z-25°C / Z+20°C	4	3	2	2	2	3	4	4	6	Z-40°C / Z+20°C	8	6	4	4	3	4	10	—	—
	WV	6.3	10	16	25	35~100	160~250	350~400	450	500~550																																										
	Z(120Hz)																																																			
Z-25°C / Z+20°C	4	3	2	2	2	3	4	4	6																																											
Z-40°C / Z+20°C	8	6	4	4	3	4	10	—	—																																											
Endurance	After applying rated voltage with rated ripple current for 2000hours at 105°C , the capacitors shall meet the following requirements.																																																			
	Capacitance change		Within ± 20% of initial value																																																	
	D.F. (tan δ)		Not more than 200% of specified value																																																	
Shelf Life	Leakage current		initial specified value or less																																																	
	After leaving capacitors under no load at 105°C 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	25
p	2.0	2.5	3.5	5.0	7.5	10.0	12.5		
ϕ d	0.5	0.5	0.6	0.6	0.8	1.0	1.0		
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0

Multiplier for Ripple Current

Freq. (Hz)	60	120	1K	≥10K
6.3~25V	0.85	1.00	1.10	1.20
35 ~ 100V	0.80	1.00	1.15	1.25
160 ~ 200V	0.75	1.00	1.25	1.40
350 ~ 450V	0.70	1.00	1.30	1.80
500~550V	0.60	1.00	1.10	1.15

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)
6.3 (8)	100	5x11	0.24	110	25 (32)	470	8x15	0.15	420
	150	5x11	0.24	130			10x12.5	0.15	440
	220	6.3x11	0.24	180		680	10x15	0.15	560
	330	6.3x11	0.24	220		1000	10x20	0.15	790
	470	6.3x11	0.24	270		1500	13x20	0.15	1050
	680	8x11	0.24	375		2200	13x25	0.17	1370
	1000	8x15	0.24	500		3300	16x25	0.19	1500
		10x12.5	0.24	520		4700	16x32	0.21	1990
	1500	10x15	0.24	600		6800	18x36	0.25	2480
	2200	10x20	0.26	850		35 (44)	10	5x11	0.12
	3300	13x20	0.28	1150	15		5x11	0.12	60
	4700	13x20	0.30	1350	22		5x11	0.12	70
	6800	13x25	0.34	1680	33		5x11	0.12	90
	10000	16x32	0.42	2250	47		5x11	0.12	110
	15000	16x36	0.52	2320	68		6.3x11	0.12	140
22000	18x40	0.64	2810	100	6.3x11		0.12	170	
10 (13)	47	5x11	0.20	80	150		8x11	0.12	235
	68	5x11	0.20	95	220		10x12.5	0.12	330
	100	5x11	0.20	120	330		10x12.5	0.12	410
	150	5x11	0.20	130	470		10x15	0.12	530
	220	6.3x11	0.20	190	680		10x20	0.12	720
	330	6.3x11	0.20	250	1000		13x20	0.12	1020
		8x11	0.20	275	1500		13x25	0.12	1350
	470	6.3x11	0.20	290	2200		16x25	0.14	1640
		8x11	0.20	315	3300	16x36	0.16	2070	
	680	8x11	0.20	365	4700	18x36	0.18	2410	
		10x12.5	0.20	420	50 (63)	3.3	5x11	0.10	31
	1000	8x15	0.20	505		4.7	5x11	0.10	36
		10x12.5	0.20	560		6.8	5x11	0.10	40
	1500	10x20	0.20	820		10	5x11	0.10	55
	2200	10x20	0.22	970		15	5x11	0.10	65
3300	13x20	0.24	1280	22		5x11	0.10	80	
4700	13x25	0.26	1590	33		5x11	0.10	95	
6800	16x25	0.30	1940	47		6.3x11	0.10	130	
10000	16x36	0.38	2330	68		8x11	0.10	180	
15000	18x36	0.48	2710	100		8x11	0.10	220	
16 (20)	33	5x11	0.17	75		150	10x12.5	0.10	310
	47	5x11	0.17	90		220	10x12.5	0.10	370
	68	5x11	0.17	105			10x15	0.10	415
	100	5x11	0.17	130		330	10x20	0.10	535
	150	6.3x11	0.17	180		470	10x20	0.10	660
	220	6.3x11	0.17	220	13x20		0.10	760	
	330	8x11	0.17	310	680	13x20	0.10	850	
	470	8x11	0.17	375	1000	13x25	0.10	1210	
	680	8x15	0.17	465	1500	16x25	0.10	1500	
		10x12.5	0.17	485	2200	16x32	0.12	1850	
	1000	10x15	0.17	650		16x36	0.12	1950	
	1500	10x20	0.17	900	3300	18x36	0.14	2360	
	2200	13x20	0.19	1180	4700	18x45	0.16	2500	
	3300	13x25	0.21	1510	63 (79)	10	5x11	0.10	55
	4700	16x25	0.23	1830		15	5x11	0.10	65
6800	16x32	0.27	2120	22		6.3x11	0.10	90	
10000	18x36	0.35	2590	33		6.3x11	0.10	110	
25 (32)	22	5x11	0.15	65		47	8x11	0.10	155
	33	5x11	0.15	80		68	10x12.5	0.10	205
	47	5x11	0.15	95		100	10x12.5	0.10	260
	68	6.3x11	0.15	125		150	10x15	0.10	330
	100	6.3x11	0.15	160		220	10x20	0.10	465
	150	8x11	0.15	220		330	13x20	0.10	650
	220	8x11	0.15	270	470	13x20	0.10	750	
	330	8x11	0.15	330	680	16x25	0.10	1000	
		10x12.5	0.15	375	1000	16x32	0.10	1380	

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Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)
63 (79)	1500	16x36	0.10	1650	350 (400)	3.3	8x11	0.20	37
	2200	18x36	0.12	2080		4.7	8x11	0.20	45
100 (125)	10	6.3x11	0.08	65		10	10x15	0.20	80
	15	6.3x11	0.08	75		22	13x20	0.20	150
	22	8x11	0.08	115		33	13x25	0.20	200
	33	8x11	0.08	140		47	16x25	0.20	260
	47	10x12.5	0.08	190	100	18x32	0.20	410	
	68	10x15	0.08	240	400 (450)	1	6.3x11	0.20	17
	100	10x20	0.08	340		2.2	8x11	0.20	32
	150	13x20	0.08	480		3.3	8x11	0.20	39
	220	13x25	0.08	630		4.7	8x11	0.20	46
	330	16x25	0.08	830			10x12.5	0.20	55
470	16x32	0.08	1000	6.8		8x15	0.20	60	
680	16x36	0.08	1200			10x12.5	0.20	65	
160 (200)	1	5x11	0.15	17		10	10x15	0.20	85
	2.2	6.3x11	0.15	26		15	10x20	0.20	100
	3.3	6.3x11	0.15	36		22	13x20	0.20	155
	4.7	6.3x11	0.15	43		33	13x25	0.20	200
	6.8	8x11	0.15	54		47	16x25	0.20	270
	10	8x11	0.15	70		68	16x32	0.20	410
	15	10x12.5	0.15	90			18x25	0.20	390
	22	10x15	0.15	115		100	18x32	0.20	500
	33	10x20	0.15	160	120	18x32	0.20	520	
	47	10x20	0.15	195		18x36	0.20	550	
	68	13x20	0.15	260	150	18x40	0.20	620	
	100	13x25	0.15	350	420 (470)	1	6.3x11	0.20	17
	150	16x25	0.15	435		2.2	8x11	0.20	29
	220	16x32	0.15	560		3.3	8x11	0.20	34
330	18x36	0.15	800	4.7		10x12.5	0.20	55	
470	18x40	0.15	970	6.8		10x15	0.20	68	
200 (250)	1	6.3x11	0.15	19		10	10x20	0.20	98
	2.2	6.3x11	0.15	28		15	13x20	0.20	130
	3.3	6.3x11	0.15	36		22	13x25	0.20	155
	4.7	8x11	0.15	50		33	16x25	0.20	205
	6.8	8x11	0.15	60		47	16x25	0.20	235
	10	10x12.5	0.15	80		68	16x32	0.20	400
	15	10x15	0.15	110			18x25	0.20	380
	22	10x20	0.15	140		100	18x36	0.20	490
	33	13x20	0.15	200		120	18x40	0.20	530
	47	13x20	0.15	245	150	18x45	0.20	570	
	68	13x25	0.15	310	450 (500)	1.0	6.3x11	0.20	18
	100	16x25	0.15	390			8x11	0.20	22
	150	16x32	0.15	480		2.2	8x11	0.20	30
	220	16x36	0.15	675			10x12.5	0.20	37
		18x32	0.15	685		3.3	8x15	0.20	42
	330	18x36	0.15	840			10x12.5	0.20	40
250 (300)	1	6.3x11	0.15	21		4.7	10x12.5	0.20	52
	2.2	6.3x11	0.15	31		6.8	10x15	0.20	62
	3.3	8x11	0.15	44		10	10x20	0.20	85
	4.7	8x11	0.15	52		15	13x20	0.20	120
	6.8	8x11	0.15	62	22	13x25	0.20	160	
	10	10x12.5	0.15	85	33	16x25	0.20	210	
	15	10x15	0.15	110	47	16x25	0.20	260	
	22	10x20	0.15	140	68	18x32	0.20	370	
	33	13x20	0.15	210	100	18x36	0.20	495	
	47	13x25	0.15	280	120	18x40	0.20	565	
	68	13x25	0.15	310	150	18x45	0.20	650	
	100	16x25	0.15	420	500 (550)	2.2	8x11	0.25	25
	150	16x32	0.15	550		3.3	8x16	0.25	30
	220	18x36	0.15	740		4.7	8x16	0.25	34
350 (400)	1	6.3x11	0.20	18			10x12.5	0.25	38
	2.2	8x11	0.20	31		6.8	10x15	0.25	50

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)
500 (550)	8.2	10x16	0.25	60
	10	10x20	0.25	70
		13x16	0.25	80
	15	13x20	0.25	90
	18	13x20	0.25	100
	22	13x25	0.25	115
		16x20	0.25	120
	33	18x25	0.25	180
	47	16x32	0.25	180
		18x30	0.25	230
	68	18x32	0.25	250
82	18x40	0.25	335	
550 (600)	4.7	10x12.5	0.25	35
	5.6	10x12.5	0.25	45
	6.8	10x15	0.25	55

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)
550 (600)	8.2	10x15	0.25	60
		13x16	0.25	70
	10	10x20	0.25	75
		13x16	0.25	80
	12	10x20	0.25	85
		13x16	0.25	90
	15	13x20	0.25	95
	18	13x20	0.25	120
	22	13x25	0.25	140
	33	16x30	0.25	180
	47	16x32	0.25	250
		18x30	0.25	260
	68	18x36	0.25	330
	82	18x40	0.25	380