

Jamicon Series : TK

Teapo Series : SH

Standard Series

■ Endurance: 105°C 2000hours

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

■ Corresponding product to RoHS

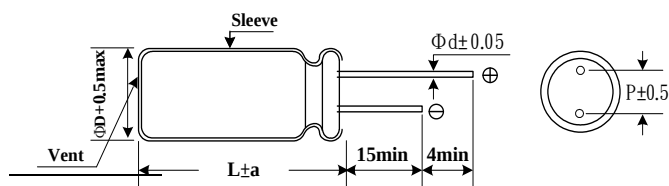
550V
LINE
UP



SPECIFICATIONS

Item	Characteristics																				
Category Temperature Range	-55~+105℃				-40~+105℃				-25~+105℃												
Rated Voltage Range	6.3 ~ 100VDC				160 ~ 450VDC				500~550VDC												
Rated Capacitance Range	1~ 22000 μ F				1 ~ 470 μ F				2.2~82 μ F												
Capacitance Tolerance	$\pm$ 20 % (120Hz , 20℃)				$\pm$ 20 % (120Hz , 20℃)				$\pm$ 20 % (120Hz , 20℃)												
Leakage Current (20℃)	I=0.01CV or 3(μ A)whichever is greater.				I=0.03CV+10(μ A)				I=0.04CV+100(μ A)												
	(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℃)	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 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)	WV			6.3	10	16	25	35~100	160~250	350~400	450	500~550									
	Z(120Hz)																				
	Z-25℃ / Z+20℃			4	3	2	2	2	3	4	4	6									
Z-40℃ / Z+20℃													8	6	4	4	3	4	10	—	—
Endurance	After applying rated voltage with rated ripple current for 2000hours at 105℃ , the capacitors shall meet the following requirements.																				
	Capacitance change			Within $\pm$ 20% of initial value																	
	D.F. (tan δ)			Not more than 200% of specified value																	
	Leakage current			initial specified value or less																	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for1,000 hours at 105℃ 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	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	$\geq 10K$
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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Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105℃) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105℃) (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			10x15	0.15	560
	330	6.3x11	0.24	220			10x20	0.15	790
	470	6.3x11	0.24	270			13x20	0.15	1050
	680	8x11	0.24	375			13x25	0.17	1370
	1000	8x15	0.24	500			16x25	0.19	1500
		10x12.5	0.24	520			16x32	0.21	1990
	1500	10x15	0.24	600			18x36	0.25	2480
	2200	10x20	0.26	850	35 (44)	10	5x11	0.12	49
	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)
63 (79)	1500	16x36	0.10	1650
	2200	18x36	0.12	2080
100 (125)	10	6.3x11	0.08	65
	15	6.3x11	0.08	75
	22	8x11	0.08	115
	33	8x11	0.08	140
	47	10x12.5	0.08	190
	68	10x15	0.08	240
	100	10x20	0.08	340
	150	13x20	0.08	480
	220	13x25	0.08	630
	330	16x25	0.08	830
160 (200)	470	16x32	0.08	1000
	680	16x36	0.08	1200
	1	5x11	0.15	17
	2.2	6.3x11	0.15	26
	3.3	6.3x11	0.15	36
	4.7	6.3x11	0.15	43
	6.8	8x11	0.15	54
	10	8x11	0.15	70
	15	10x12.5	0.15	90
	22	10x15	0.15	115
	33	10x20	0.15	160
	47	10x20	0.15	195
	68	13x20	0.15	260
	100	13x25	0.15	350
	150	16x25	0.15	435
	220	16x32	0.15	560
	330	18x36	0.15	800
	470	18x40	0.15	970
200 (250)	1	6.3x11	0.15	19
	2.2	6.3x11	0.15	28
	3.3	6.3x11	0.15	36
	4.7	8x11	0.15	50
	6.8	8x11	0.15	60
	10	10x12.5	0.15	80
	15	10x15	0.15	110
	22	10x20	0.15	140
	33	13x20	0.15	200
	47	13x20	0.15	245
	68	13x25	0.15	310
	100	16x25	0.15	390
	150	16x32	0.15	480
	220	16x36	0.15	675
		18x32	0.15	685
	330	18x36	0.15	840
250 (300)	1	6.3x11	0.15	21
	2.2	6.3x11	0.15	31
	3.3	8x11	0.15	44
	4.7	8x11	0.15	52
	6.8	8x11	0.15	62
	10	10x12.5	0.15	85
	15	10x15	0.15	110
	22	10x20	0.15	140
	33	13x20	0.15	210
	47	13x25	0.15	280
	68	13x25	0.15	310
	100	16x25	0.15	420
	150	16x32	0.15	550
	220	18x36	0.15	740
350 (400)	1	6.3x11	0.20	18
	2.2	8x11	0.20	31
350 (400)	3.3	8x11	0.20	37
	4.7	8x11	0.20	45
	10	10x15	0.20	80
	22	13x20	0.20	150
	33	13x25	0.20	200
	47	16x25	0.20	260
400 (450)	100	18x32	0.20	410
	1	6.3x11	0.20	17
	2.2	8x11	0.20	32
	3.3	8x11	0.20	39
	4.7	8x11	0.20	46
		10x12.5	0.20	55
	6.8	8x15	0.20	60
		10x12.5	0.20	65
	10	10x15	0.20	85
	15	10x20	0.20	100
	22	13x20	0.20	155
	33	13x25	0.20	200
	47	16x25	0.20	270
	68	16x32	0.20	410
		18x25	0.20	390
420 (470)	100	18x32	0.20	500
	120	18x32	0.20	520
		18x36	0.20	550
	150	18x40	0.20	620
	1	6.3x11	0.20	17
	2.2	8x11	0.20	29
	3.3	8x11	0.20	34
	4.7	10x12.5	0.20	55
	6.8	10x15	0.20	68
	10	10x20	0.20	98
	15	13x20	0.20	130
	22	13x25	0.20	155
	33	16x25	0.20	205
	47	16x25	0.20	235
450 (500)	68	16x32	0.20	400
		18x25	0.20	380
	100	18x36	0.20	490
	120	18x40	0.20	530
	150	18x45	0.20	570
	1.0	6.3x11	0.20	18
		8x11	0.20	22
	2.2	8x11	0.20	30
		10x12.5	0.20	37
	3.3	8x15	0.20	42
		10x12.5	0.20	40
	4.7	10x12.5	0.20	52
	6.8	10x15	0.20	62
	10	10x20	0.20	85
	15	13x20	0.20	120
	22	13x25	0.20	160
500 (550)	33	16x25	0.20	210
	47	16x25	0.20	260
	68	18x32	0.20	370
	100	18x36	0.20	495
	120	18x40	0.20	565
	150	18x45	0.20	650
	2.2	8x11	0.25	25
	3.3	8x16	0.25	30
	4.7	8x16	0.25	34
		10x12.5	0.25	38
	6.8	10x15	0.25	50

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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 (μ F)	Case size Φ D $\times$ L(mm)	$\tan \delta$	Ripple current (mA/rms105℃) (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