



TK Series Wide Temperature Range

JAMICON

• High temperature 105°C and high reliability



SPECIFICATION

Item		Characteristic													
Operation Temperature Range		-55 ~	+105°	С	-40 ~ +10				°C		-25 ~ +105°C				
Rated Working Voltage		6.3 ~	100VE	C			160	~ 400V	DC		450VDC				
Capacitance Tolerance (120Hz 20°C)							±2	20%(M)							
	6.3	~100 V	DC	I ≦ 0.	01CV (or 4 (μ	A)		160~4	50 VDC	l <u>≦</u>	≦0.03C	V +40 (μA)m	ax
Leakage Current (20°C)	*Whiche	ver is g	reater	after 3 r	ninutes	;	·	1							
(20 C)	I : Leaka	ge Cur	rent(μ	A) C:	Rated	Capac	tance(μ	rF) V	: Work	ing Volta	ge(V)				
Surge Voltage	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
(20°C)	S.V.	8	13	20	32	44	63	79	125	200	250	300	400	450	500
Discipation Factor (top 5)	Add 0.02	Add 0.02 per 1000 μ F for more than 1000 μ F													
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
(123112 23 3)	$tan \delta$	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.08	0.15	0.15	0.15	0.20	0.20	0.20
	Impedance ratio at 120Hz														
Low Temperature Stability	Rated V	oltage (V)	6.3	10)	16	2	25	35~100	160	~250	350~40	00	450
Low Temperature Stability	-25°C / +	-20°C		4	3	,	2	2	2	2		3	6		15
	-40°C / +	-20°C		10	8		6	4	4	3		4	10		_
	After 200	00 hour	s appli	cation of	W.V. a	t +105°	C, the ca	apacitor	shall m	eet the f	ollowin	g limits			
Load Life	Capacita	ance Ch	nange	≦±2	5% of i	f initial value for 6.3~16 W.V., ≦±20% of initial value for 25~450 W.V.							.V.		
Load Life	Dissipati	on Fac	tor	≦200	% of in	of initial specified value									
	Leakage	curren	t	≦initi	al spec	ified v	alue								
01 1/11/	At +105°	C no vo	oltage	applicati	on afte	r 1000	hours th	пе сара	citor sl	nall meet	the lin	nits for	load life	chara	cteris-
Shelf Life	tics. (with	h voltaç	ge trea	tment)											

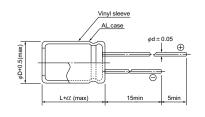
DIMENSIONS (mm)

ϕD	5	6.3	8	10	12.5	16	18	20	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8	1.0	1.0
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0

RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	85	105
Multiplier	1.75	1.40	1.00

Frequency(Hz)	60 120		1k	≧10k
W.V.		Mult	tiplier	
6.3~25V	0.85	1.00	1.10	1.20
35~100V	0.80	1.00	1.15	1.25
160~250V	0.75	1.00	1.25	1.40
350~450V	0.70	1.00	1.30	1.80









CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 105°C 120Hz

	V(Code)	6.3	(OJ)	10 ((1A)	16 ((1C)
μF	Code Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
47	470				-	5x11	75
100	101	5x11	95	5x11	100	5x11	110
220	221	5x11	140	5x11	150	6.3x11	190
330	331	6.3x11	200	6.3x11	210	8x11.5	270
470	471	6.3x11	230	6.3x11	260	8x11.5	320
1000	102	8x11.5	400	10x12.5	460	10x16	550
2200	222	10x16	660	10x20	790	12.5x20	910
3300	332	10x20	860	12.5x20	990	12.5x25	1170
4700	472	12.5x20	1040	12.5x25	1230	16x25	1310
6800	682	12.5x25	1300	16x25	1390	16x31.5	1620
10000	103	16x25	1450	16x35.5	1780	18x35.5	1970
15000	153	16x35.5	1860	18x35.5	2060	20x40	2210
22000	223	18x40	2250	20x40	2460	22x50	2940
33000	333	22x50	2950	22x50	3020	25x50	3300

All blank voltage on sleeve marking is the same voltage as " \longrightarrow "point to.

V(Code)		25 ((1E)	35	(1V)	50	(1H)
μF	Code Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.1	0R1					5x11	5
0.22	R22				-	5x11	7
0.33	R33					5x11	8
0.47	R47					5x11	10
1	010				-	5x11	15
2.2	2R2				-	5x11	22
3.3	3R3					5x11	27
4.7	4R7				-	5x11	32
10	100	5x11	38	5x11	42	5x11	46
22	220	5x11	55	5x11	65	5x11	70
33	330	5x11	70	5x11	75	5x11	85
47	470	5x11	80	5x11	90	6.3x11	110
100	101	6.3x11	140	6.3x11	150	8x11.5	190
220	221	8x11.5	240	8x11.5	260	10x12.5	300
330	331	8x11.5	290	10x12.5	340	10x16	410
470	471	10x12.5	360	10x16	450	10x20	540
1000	102	10x20	650	12.5x20	770	12.5x25	930
2200	222	12.5x25	1060	16x25	1180	16x35.5	1480
3300	332	16x25	1240	16x35.5	1570	18x35.5	1790
4700	472	16x31.5	1520	18x35.5	1840		
6800	682	18x35.5	1890				
10000	103	20x40	2270				
15000	153	22x50	2840				
22000	223	25x50	3210				



CASE SIZE & MAX RIPPLE CURRENT Case size : D x L (mm) Max ripple current : mA(rms) 105°C 120Hz

	V(Code)	63	(1J)	100	(2A)
μF	Code	DxL	R.C.	DxL	R.C.
0.1	0R1			5x11	5
0.22	R22			5x11	8
0.33	R33			5x11	9
0.47	R47			5x11	11
1	010			5x11	16
2.2	2R2			5x11	24
3.3	3R3		→	5x11	30
4.7	4R7		→	5x11	35
10	100	5x11	46	6.3x11	55
22	220	5x11	70	6.3x11	85
33	330	6.3x11	95	8x11.5	120
47	470	6.3x11	110	10x12.5	160
100	101	10x12.5	200	10x20	280
220	221	10x16	340	12.5x25	490
330	331	10x20	460	12.5x25	600
470	471	12.5x20	580	16x25	720
1000	102	16x25	940	18x40	1380
2200	222			22x50	2260

All blank voltage on sleeve marking is the same voltage as " \longrightarrow "point to.

	V(Code)	160	(2C)	200	(2D)	250	(2E)
μF	Code Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47	6.3x11	9	6.3x11	10	6.3x11	11
1	010	6.3x11	14	6.3x11	15	6.3x11	16
2.2	2R2	6.3x11	20	6.3x11	22	6.3x11	24
3.3	3R3	6.3x11	25	6.3x11	26	8x11.5	34
4.7	4R7	6.3x11	29	8x11.5	37	8x11.5	40
10	100	8x11.5	50	10x12.5	55	10x16	70
22	220	10x16	85	10x20	100	12.5x20	120
33	330	10x20	120	12.5x20	130	12.5x20	150
47	470	12.5x20	150	12.5x20	160	12.5x25	190
100	101	12.5x25	240	16x25	260	16x31.5	310
220	221	16x35.5	420	18x40	510		
330	331	18x40	580				
470	471	22x40	770				
1000	102	25x50	1330				

	V(Code)	350	(2V)	400	(2G)	450	(2W)
μF	Code Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47	8x11.5	11	8x11.5	11	10x12.5	11
1	010	8x11.5	16	8x11.5	16	10x12.5	17
2.2	2R2	8x11.5	24	10x12.5	26	10x20	30
3.3	3R3	10x12.5	30	10x12.5	31	12.5x20	40
4.7	4R7	10x12.5	36	10x16	42	12.5x20	47
10	100	10x20	65	12.5x20	70	16x25	75
22	220	12.5x25	110	12.5x25	120	16x31.5	130
33	330	16x25	140	16x31.5	160	18x35.5	170
47	470	16x35.5	190	18x35.5	210		
100	101	18x40	320	20x40	350		
220	221	22x50	580				