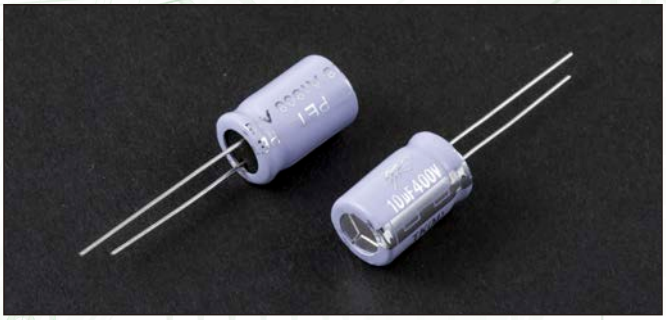
TK Series

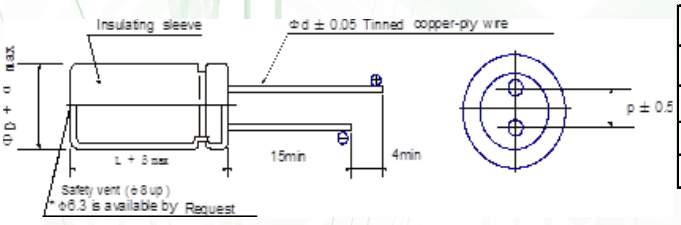


- 105℃ High Frequency , Low Impedance,High ripple current. For LED driver power.
- 4000 hours guaranteed for ΦD ≦Φ6.3
- 6000 hours guaranteed for ΦD ≧Φ8
- Rohs compliance.

◆ SPECIFICATIONS

Item	Characteristics								
Operating Temperature Range	-40 ~ +105℃					-25 ~ +105℃			
Voltage Range	35V~100V.DC					160~450V.DC			
Leakage Current	I = 0.03CV whichever is greater.(after 3 minutes) where,I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20℃)								
Dissipation Factor (tanδ) (at 120Hz, +20℃)	Rated voltage(V.DC)	35V	50V	63V	80V	100V	160~250V	350、400V	450V
	tanδ(Max.)	0.15	0.1	0.1	0.08	0.08	0.15	0.15	0.15
Low Temp. Impedance Stability at 120Hz	Rated voltage(V.DC)	35V	50V	63V	80V	100V	160~250V	350、400V	450V
	Z(-25℃)/Z(+20℃)	2	2	2	2	2	3	5	6
	Z(-40℃)/Z(+20℃)	3	3	3	3	3	6	6	-
Impedance(Ω)	See case size table								
High Temp. Load Test	After ΦD≦Φ6.3: 4000hrs, ΦD≧Φ8: 6000hrs, application of DC rated working voltage at +105℃, The capacitor shall meet the following limits. Capacitance change ..≦±20% of the initial measured value Tanδ ..≦200% of the initial specified value DC leakage current ..≦the initial specified value								
High Temp. Non-Load Test	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, The capacitor shall meet the following limits. Capacitance change ..≦±20% of the initial measured value tanδ .≦200% of the initial specified value DC leakage current ..≦500% of the initial specified value								

◆ DRAWING



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	0.5	0.6	0.6	0.8	0.8
β	+1.5						
α	+0.5						

▼ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(HZ) / Cap(μF)	60(50)	120	1K	10K	100K
3.3~ 47	0.70	1.00	1.75	2.25	2.50
68 ~ 470	0.75	1.00	1.67	1.75	2.25

◆ PART NUMBERING SYSTEM

TK	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

TK Series

■STANDARD RATINGS

WV(Vdc) / Parameter / Cap (μF)	35				50			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ		Ripple Current(mArms) 105℃ 100KHZ	ΦDxL (mm)	Impedance Ω 20℃,100KHZ		Ripple Current(mArms) 105℃ 100KHZ
100	8x11.5	0.2		375	8x11.5	0.12		586
220	8x15	0.084		945	10x16	0.042		724
330	8x20	0.029		1250	10x25	0.028		1870
470	10x16	0.028		1600	12.5x20	0.025		2110
680	10x20	0.018		1850	12.5x30	0.021		2860
1000	12.5x20	0.017		2550	16x25	0.023		2730
1500	12.5x30	0.013		3450	18x25	0.019		3290
2200	16x25	0.013		3630	16x32	0.015		3865
3300	18x25	0.012		3840	18x35.5	0.013		4960

WV(Vdc) / Parameter / Cap (μF)	63				80			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ		Ripple Current(mArms) 105℃ 100KHZ	ΦDxL (mm)	Impedance Ω 20℃,100KHZ		Ripple Current(mArms) 105℃ 100KHZ
22	6.3x11	0.45		185	6.3x11	0.55		214
33	6.3x11	0.35		214	6.3x11	0.46		267
47	6.3x15	0.3		278	8x11.5	0.29		380
100	8x15	0.18		688	8x20	0.16		735
220	10x16	0.1		1103	10x25	0.069		1170
330	10x25	0.07		1410	12.5x25	0.047		1620
470	12.5x25	0.037		1990	16x25	0.036		2140
560	12.5x30	0.032		2410	16x25	0.032		2340

WV(Vdc) / Parameter / Cap (μF)	100			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ		Ripple Current(mArms) 105℃ 100KHZ
10	6.3x11	1.2		163
22	8x11.5	0.46		267
33	8x11.5	0.29		462
47	10x12.5	0.17		585
68	10x16	0.11		735
100	10x20	0.084		1040
220	12.5x25	0.047		1620
330	16x25	0.036		2140
470	16x31.5	0.032		2400
560	16x35.5	0.029		2600

TK Series

■STANDARD RATINGS

WV(Vdc) / Parameter / Cap (μF)	160				200			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ
22	10x20	2.1		500	10x20	1.5		500
33	10x20	1.3		625	10x20	0.91		650
47	10x20	0.91		750	13x20	0.91		975
68	13x20	0.63		1175	13x25	0.63		1175
100	13x25	0.31		1395	16x25	0.27		1420
150	16x25	0.27		1735	16x25	0.27		1890
220	16x25	0.22		2295	18x25	0.25		2365
330	18x31.5	0.21		3130	18x35.5	0.22		3220
470	18x45	0.19		3715				

WV(Vdc) / Parameter / Cap (μF)	250				350			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ
10	10x16	3.5		350				
22	10x20	2.3		500	13x20	2.1		650
33	13x25	1.7		800	16x20	0.91		900
47	13x25	1.7		975	16x25	0.73		1075
68	16x25	0.78		1300	16x31.5	0.49		1400
100	16x31.5	0.63		1530	18x31.5	0.4		1575
150	18x31.5	0.42		1935				
220	18x31.5	0.35		2545				

WV(Vdc) / Parameter / Cap (μF)	400				450			
	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ	ΦDxL (mm)	Impedance Ω 20℃,100KHZ	Ripple Current(mArms)	105℃ 100KHZ
3.3	6.3X11	7.0		50	10x13	6.5		150
4.7	8X12	5.5		75	10X16	3.6		200
10	10x16	2.9		350	10X20	2.5		450
22	13x20	1.3		650	16x20	1.7		600
33	13x25	0.91		900	16x25	1.1		975
47	16x25	0.73		1175	18x25	0.93		1200
68	18x25	0.53		1465	18x31.5	0.71		1575
100	18x31.5	0.34		1172	18x40	0.41		1800
120	18x35.5	0.34		1945				
150	18x40	0.33		2215				