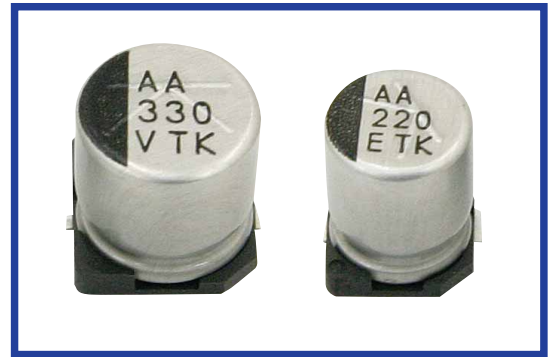


TKV SERIES

105°C Low ESR , Lead Free Reflow Soldering.

◆FEATURES

- Load Life 105°C 2000 hours.
- Reflow soldering is available.
- Available for high density mounting
- Low ESR at 100kHz with selected material.
- RoHS compliance.



◆SPECIFICATIONS

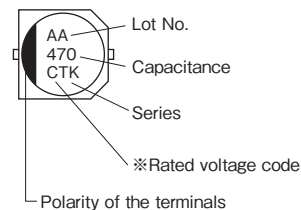
Items	Characteristics																								
Category Temperature Range	−55~+105℃																								
Rated Voltage Range	6.3~35V.DC																								
Capacitance Tolerance	±20%(20℃,120Hz)																								
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=(μA) Leakage Current C=(μF) Rated Capacitance V=(V) Rated Voltage																								
(tanδ) Dissipation Factor(MAX)	<table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>tanδ</td><td>0.26</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20℃,120Hz)	Rated Voltage	6.3	10	16	25	35	tanδ	0.26	0.19	0.16	0.14	0.12												
Rated Voltage	6.3	10	16	25	35																				
tanδ	0.26	0.19	0.16	0.14	0.12																				
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±30% of the initially measured value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table>	Capacitance Change	Within ±30% of the initially measured value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																		
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Z(−25℃)/Z(20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(−40℃)/Z(20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z(−55℃)/Z(20℃)</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)	Rated Voltage	6.3	10	16	25	35	Z(−25℃)/Z(20℃)	2	2	2	2	2	Z(−40℃)/Z(20℃)	3	3	3	3	3	Z(−55℃)/Z(20℃)	4	4	4	3	3
Rated Voltage	6.3	10	16	25	35																				
Z(−25℃)/Z(20℃)	2	2	2	2	2																				
Z(−40℃)/Z(20℃)	3	3	3	3	3																				
Z(−55℃)/Z(20℃)	4	4	4	3	3																				

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

(Hz) Frequency	120	1K	10K	100K≤
100~150μF	0.50	0.80	0.95	1.00
220~1800μF	0.60	0.85	0.95	1.00

◆MARKING



※Voltage code

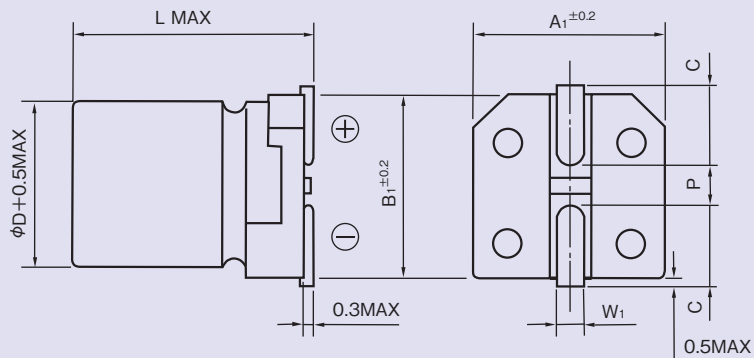
Rated Voltage	6.3	10	16	25	35
Voltage code	j	A	C	E	V

◆PART NUMBER

□□□	TKV	□□□□□	M	□□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

◆ DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5

◆ STANDARD SIZE

Size $\phi D \times L$ (mm), Ripple current (mA r.m.s./105°C, 100kHz), ESR (Ω Max/20°C, 100kHz)

WV (V.DC)	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	WV (V.DC)	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR
6.3 (0J)	470	8×10.5	850	0.08	25 (1E)	150	8×10.5	850	0.08
	1000	8×10.5	850	0.08		220	8×10.5	850	0.08
	1500	10×10.5	1190	0.06		330	8×10.5	850	0.08
	1800	10×10.5	850	0.08		470	10×10.5	1190	0.06
10 (1A)	330	8×10.5	850	0.08		560	10×10.5	850	0.08
	470	8×10.5	850	0.08	35 (1V)	100	8×10.5	850	0.08
	680	8×10.5	850	0.08		150	8×10.5	850	0.08
	1000	10×10.5	1190	0.06		220	8×10.5	850	0.08
	1200	10×10.5	850	0.08		330	10×10.5	1190	0.06
16 (1C)	330	8×10.5	850	0.08		390	10×10.5	850	0.08
	470	8×10.5	850	0.08					
	680	10×10.5	1190	0.06					
	820	10×10.5	850	0.08					