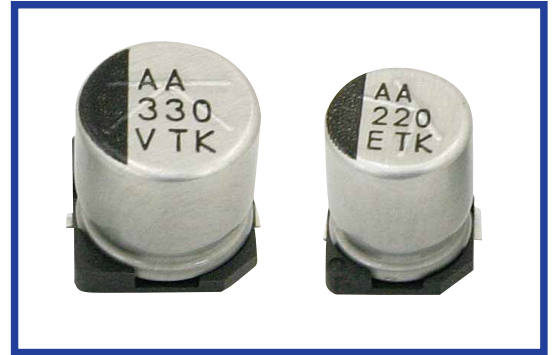


**TKV SERIES**

**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**

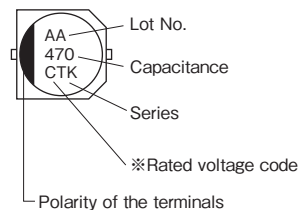
Items	Characteristics																								
Category Temperature Range	-55~+105°C																								
Rated Voltage Range	6.3~35V.DC																								
Capacitance Tolerance	±20% (20°C, 120Hz)																								
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) $I=(\mu A)$ Leakage Current $C=(\mu F)$ Rated Capacitance $V=(V)$ Rated Voltage																								
(tanδ) Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <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> </tbody> </table> (20°C, 120Hz)	Rated Voltage	6.3	10	16	25	35	tanδ	0.26	0.19	0.16	0.14	0.12												
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Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <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> </tbody> </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 border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z(-55°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> (120Hz)	Rated Voltage	6.3	10	16	25	35	Z(-25°C)/Z(20°C)	2	2	2	2	2	Z(-40°C)/Z(20°C)	3	3	3	3	3	Z(-55°C)/Z(20°C)	4	4	4	3	3
Rated Voltage	6.3	10	16	25	35																				
Z(-25°C)/Z(20°C)	2	2	2	2	2																				
Z(-40°C)/Z(20°C)	3	3	3	3	3																				
Z(-55°C)/Z(20°C)	4	4	4	3	3																				

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency Coefficient

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

**◆MARKING**



※Voltage code

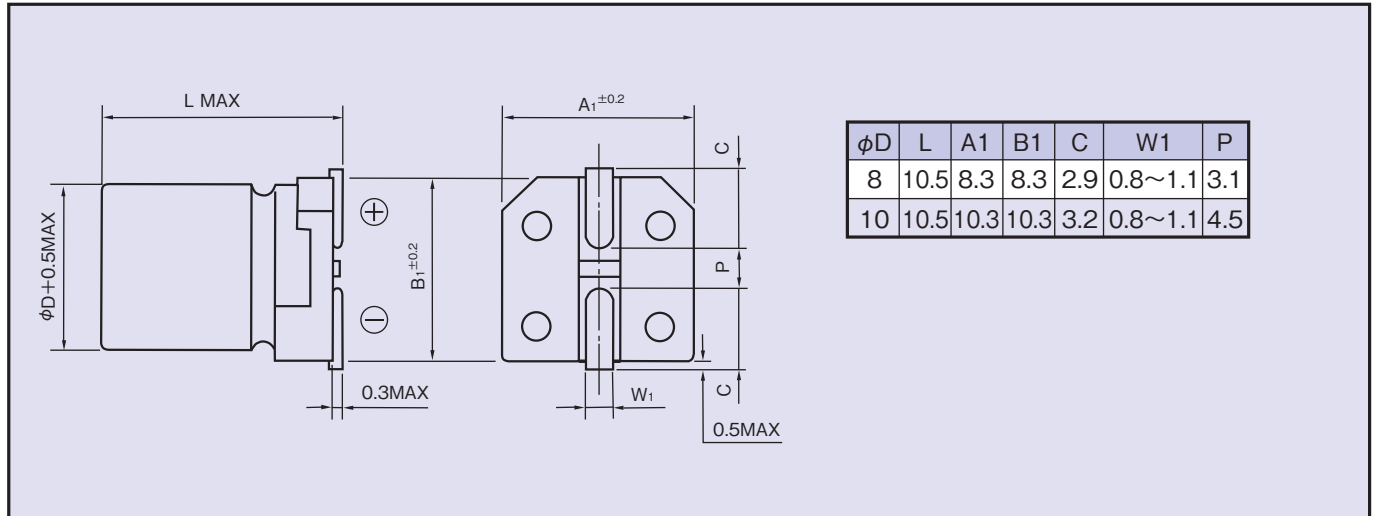
Rated Voltage	6.3	10	16	25	35
Voltage code	j	A	C	E	V

**◆PART NUMBER**

□□□	TKV	□□□□□	M	□□□	DXL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

◆ **DIMENSIONS**

(mm)



◆ **STANDARD SIZE**

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

WV (V.DC)	Cap ( $\mu F$ )	Size ( $\phi DXL$ )	Ripple	ESR	WV (V.DC)	Cap ( $\mu F$ )	Size ( $\phi DXL$ )	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
	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					