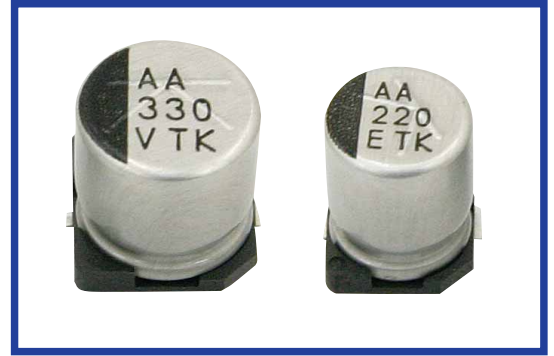


**TKV SERIES**
**105°C Low ESR , Lead Free Reflow Soldering**
**◆FEATURES**

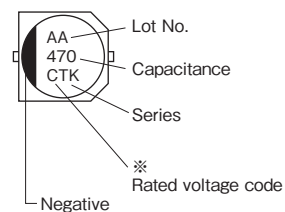
- Load Life 105°C 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Prescribe ESR value at 100 kHz.
- RoHS compliance.


**◆SPECIFICATIONS**

Items	Characteristics																								
Category Temperature Range	-55~+105°C																								
Rated Voltage Range	6.3~35Vdc																								
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=Leakage Current (μA)      C=Capacitance (μF)      V=Rated Voltage (Vdc)																								
(tanδ) Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</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 (Vdc)	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 for 2000 hours at 105°C, the capacitor 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 (Vdc)</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 (Vdc)	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 (Vdc)	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 (Hz)		120	1k	10k	100k≤
Coefficient	33μF	0.42	0.75	0.90	1.00
	47~150μF	0.44	0.80	0.95	1.00
	220~1800μF	0.60	0.85	0.95	1.00

**◆MARKING**


※Voltage code

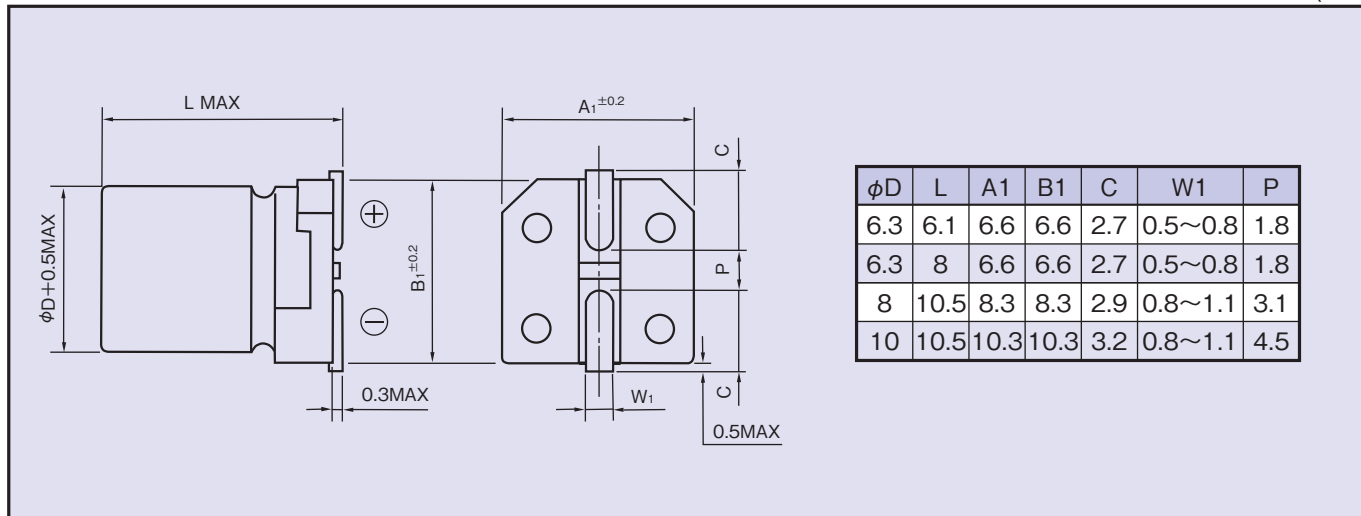
Rated Voltage (Vdc)	6.3	10	16	25	35
Voltage code	j	A	C	E	V

**◆PART NUMBER**

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Size φDXL(mm), Rated Ripple Current(mA r.m.s./105°C,100kHz), ESR(Ω MAX/20°C, 100kHz)

Vdc	Cap (μF)	Size (φDXL)	Ripple	ESR	Vdc	Cap (μF)	Size (φDXL)	Ripple	ESR
6.3	100	6.3×6.1	300	0.26	25	33	6.3×6.1	300	0.26
	220	6.3×6.1	300	0.26		68	6.3×6.1	300	0.26
	330	6.3×8	600	0.16		100	6.3×8	600	0.16
	470	8×10.5	850	0.08		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	150	6.3×6.1	300	0.26	560	10×10.5	850	0.08	
	220	6.3×8	600	0.16	35	33	6.3×6.1	300	0.26
	330	8×10.5	850	0.08		47	6.3×6.1	300	0.26
	470	8×10.5	850	0.08		68	6.3×8	600	0.16
	680	8×10.5	850	0.08		100	6.3×8	600	0.16
	1000	10×10.5	1190	0.06			8×10.5	850	0.08
	1200	10×10.5	850	0.08		150	8×10.5	850	0.08
16	47	6.3×6.1	300	0.26		220	8×10.5	850	0.08
	100	6.3×6.1	300	0.26	330	10×10.5	1190	0.06	
		6.3×8	600	0.16	390	10×10.5	850	0.08	
	220	6.3×8	600	0.16					
	330	8×10.5	850	0.08					
	470	8×10.5	850	0.08					
	680	10×10.5	1190	0.06					
	820	10×10.5	850	0.08					