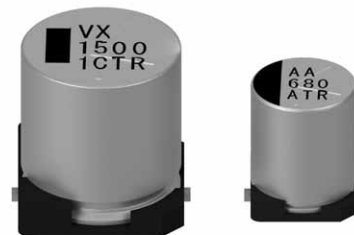


TRV SERIES

Load Life : 105°C 5000 ~ 10000 hours, Low Impedance

RoHS
compliance



SPECIFICATIONS

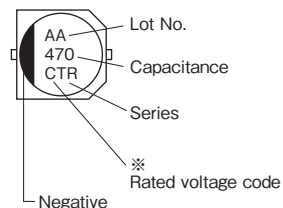
Items	Characteristics																																														
Category Temperature Range	-40~+105℃																																														
Rated Voltage Range	6.3~50Vdc																																														
Capacitance Tolerance	±20% (20℃,120Hz)																																														
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)																																														
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>φ6.3~10</td><td>0.32</td><td>0.28</td><td>0.26</td><td>0.16</td><td>0.14</td><td>0.14</td></tr><tr><td>φ12.5~18</td><td>0.30</td><td>0.26</td><td>0.22</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20℃,120Hz) When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with Increase of every 1000 μF.							Rated Voltage (Vdc)	6.3	10	16	25	35	50	φ6.3~10	0.32	0.28	0.26	0.16	0.14	0.14	φ12.5~18	0.30	0.26	0.22	0.16	0.14	0.12																			
Rated Voltage (Vdc)	6.3	10	16	25	35	50																																									
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φ12.5~18	0.30	0.26	0.22	0.16	0.14	0.12																																									
Endurance	After applying rated voltage for specified time at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 300% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value.</td></tr></table> <table><tr><td colspan="2">Case Size</td><td colspan="2">LifeTime (hrs)</td></tr><tr><td rowspan="2">φD=6.3</td><td>L=6.1</td><td colspan="2">5000</td></tr><tr><td>L=8</td><td colspan="2">6000</td></tr><tr><td colspan="2">φD=8, 10</td><td colspan="2">8000</td></tr><tr><td colspan="2">φD≥12.5</td><td colspan="2">10000</td></tr></table>							Capacitance Change	Within ±30% of the initial value.						Dissipation Factor	Not more than 300% of the specified value.						Leakage Current	Not more than the specified value.						Case Size		LifeTime (hrs)		φD=6.3	L=6.1	5000		L=8	6000		φD=8, 10		8000		φD≥12.5		10000	
Capacitance Change	Within ±30% of the initial value.																																														
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Case Size		LifeTime (hrs)																																													
φD=6.3	L=6.1	5000																																													
	L=8	6000																																													
φD=8, 10		8000																																													
φD≥12.5		10000																																													
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>4</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	Z(-40℃)/Z(20℃)	4	4	4	4	3	3																										
Rated Voltage (Vdc)	6.3	10	16	25	35	50																																									
Z(-40℃)/Z(20℃)	4	4	4	4	3	3																																									

MULTIPLIER FOR RIPPLE CURRENT

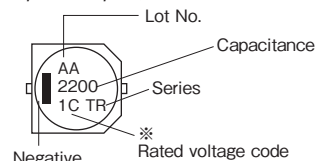
Frequency (Hz)	120	1k	10k	100k≤
10~33μF	0.45	0.75	0.90	1.00
47~100μF	0.50	0.80	0.95	1.00
220~8200μF	0.60	0.85	0.95	1.00

MARKING

〈φ6.3~φ10〉



〈φ12.5~φ18〉



※ Voltage code

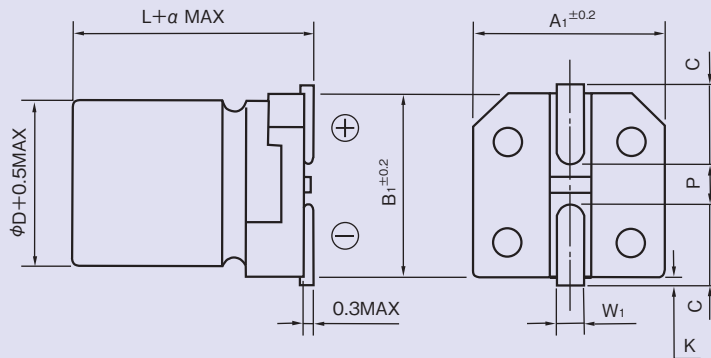
Rated Voltage (Vdc)	6.3	10	16	25	35	50
φD≤10	j	A	C	E	V	H
φD≥12.5	0J	1A	1C	1E	1V	1H

PART NUMBER

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

◆ DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P	K	α
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5Max	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5Max	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5Max	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5Max	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7 $\pm$ 0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7 $\pm$ 0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5

◆ STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 100kHz), Impedance (Ω MAX/20°C, 100kHz)

Vdc	Cap (μF)	Size ($\phi D \times L$)	Ripple	Impedance	Vdc	Cap (μF)	Size ($\phi D \times L$)	Ripple	Impedance
6.3	470	8 $\times$ 10.5	600	0.15	25	100	6.3 $\times$ 8	230	0.7
	820	10 $\times$ 10.5	850	0.12		220	8 $\times$ 10.5	600	0.15
	2200	12.5 $\times$ 13.5	950	0.092		330	10 $\times$ 10.5	850	0.12
	2700	12.5 $\times$ 16	1200	0.074		1000	12.5 $\times$ 13.5	950	0.092
	3900	16 $\times$ 16.5	1450	0.066		1200	12.5 $\times$ 16	1200	0.074
	5600	18 $\times$ 16.5	1550	0.064		1500	16 $\times$ 16.5	1450	0.066
	6800	16 $\times$ 21.5	2000	0.041		2200	18 $\times$ 16.5	1550	0.064
	8200	18 $\times$ 21.5	2150	0.039		2700	16 $\times$ 21.5	2000	0.041
10	330	8 $\times$ 10.5	600	0.15		3300	18 $\times$ 21.5	2150	0.039
	680	10 $\times$ 10.5	850	0.12	35	10	6.3 $\times$ 6.1	140	1
	1800	12.5 $\times$ 13.5	950	0.092		22	6.3 $\times$ 6.1	140	1
	2200	12.5 $\times$ 16	1200	0.074		33	6.3 $\times$ 6.1	140	1
	3300	16 $\times$ 16.5	1450	0.066		47	6.3 $\times$ 8	230	0.7
	4700	18 $\times$ 16.5	1550	0.064		100	8 $\times$ 10.5	600	0.15
	5600	16 $\times$ 21.5	2000	0.041		220	10 $\times$ 10.5	850	0.12
	6800	18 $\times$ 21.5	2150	0.039		470	12.5 $\times$ 13.5	950	0.092
						680	12.5 $\times$ 16	1200	0.074
16	330	8 $\times$ 10.5	600	0.15		1000	16 $\times$ 16.5	1450	0.066
	470	10 $\times$ 10.5	850	0.12		1500	18 $\times$ 16.5	1550	0.064
	1500	12.5 $\times$ 13.5	950	0.092		2200	16 $\times$ 21.5	2000	0.041
	1800	12.5 $\times$ 16	1200	0.074		2700	18 $\times$ 21.5	2150	0.039
	2200	16 $\times$ 16.5	1450	0.066	50	10	6.3 $\times$ 6.1	140	1
	3300	18 $\times$ 16.5	1550	0.064		33	6.3 $\times$ 8	230	0.7
	4700	16 $\times$ 21.5	2000	0.041		47	8 $\times$ 10.5	350	0.36
	5600	18 $\times$ 21.5	2150	0.039		100	10 $\times$ 10.5	670	0.25
						330	12.5 $\times$ 13.5	850	0.18
						390	12.5 $\times$ 16	950	0.15
						470	16 $\times$ 16.5	1200	0.12
						820	18 $\times$ 16.5	1300	0.12
						1000	16 $\times$ 21.5	1600	0.08
						1500	18 $\times$ 21.5	1650	0.072