



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TRV SERIES

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

RoHS compliance



◆SPECIFICATIONS

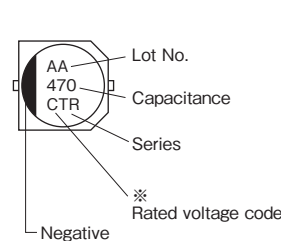
Items	Characteristics																					
Category Temperature Range	-40~+105°C																					
Rated Voltage Range	6.3~50Vdc																					
Capacitance Tolerance	±20% (20°C, 120Hz)																					
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance (μF) V=Rated Voltage(Vdc)																					
Dissipation Factor(MAX) (tanδ)	<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> <th>50</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>(20°C, 120Hz)</p> <p>When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with Increase of every 1000 μF.</p>	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																
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																
Endurance	<p>After applying rated voltage for specified time at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <thead> <tr> <th>Capacitance Change</th> <th>Within ±30% of the initial value.</th> <th>Case Size</th> <th>LifeTime (hrs)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Dissipation Factor</td> <td rowspan="2">Not more than 300% of the specified value.</td> <td>φD=6.3 L=6.1</td> <td>5000</td> </tr> <tr> <td>L=8</td> <td>6000</td> </tr> <tr> <td rowspan="2">Leakage Current</td> <td rowspan="2">Not more than the specified value.</td> <td>φD=8, 10</td> <td>8000</td> </tr> <tr> <td>φD≥12.5</td> <td>10000</td> </tr> </tbody> </table>	Capacitance Change	Within ±30% of the initial value.	Case Size	LifeTime (hrs)	Dissipation Factor	Not more than 300% of the specified value.	φD=6.3 L=6.1	5000	L=8	6000	Leakage Current	Not more than the specified value.	φD=8, 10	8000	φD≥12.5	10000					
Capacitance Change	Within ±30% of the initial value.	Case Size	LifeTime (hrs)																			
Dissipation Factor	Not more than 300% of the specified value.	φD=6.3 L=6.1	5000																			
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Leakage Current	Not more than the specified value.	φD=8, 10	8000																			
		φD≥12.5	10000																			
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> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	Rated Voltage (Vdc)	6.3	10	16	25	35	50	Z(-40°C)/Z(20°C)	4	4	4	4	3	3							
Rated Voltage (Vdc)	6.3	10	16	25	35	50																
Z(-40°C)/Z(20°C)	4	4	4	4	3	3																

◆MULTIPLIER FOR RIPPLE CURRENT

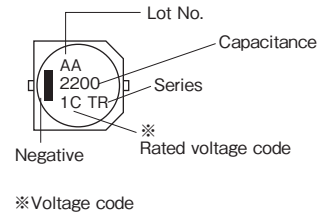
Frequency (Hz)		120	1k	10k	100k≤
Coefficient	10~33μF	0.45	0.75	0.90	1.00
	47~100μF	0.50	0.80	0.95	1.00
	220~8200μF	0.60	0.85	0.95	1.00

◆MARKING

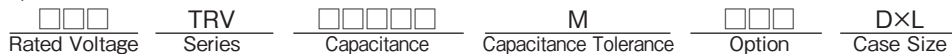
<φ6.3~φ10>



<φ12.5~φ18>



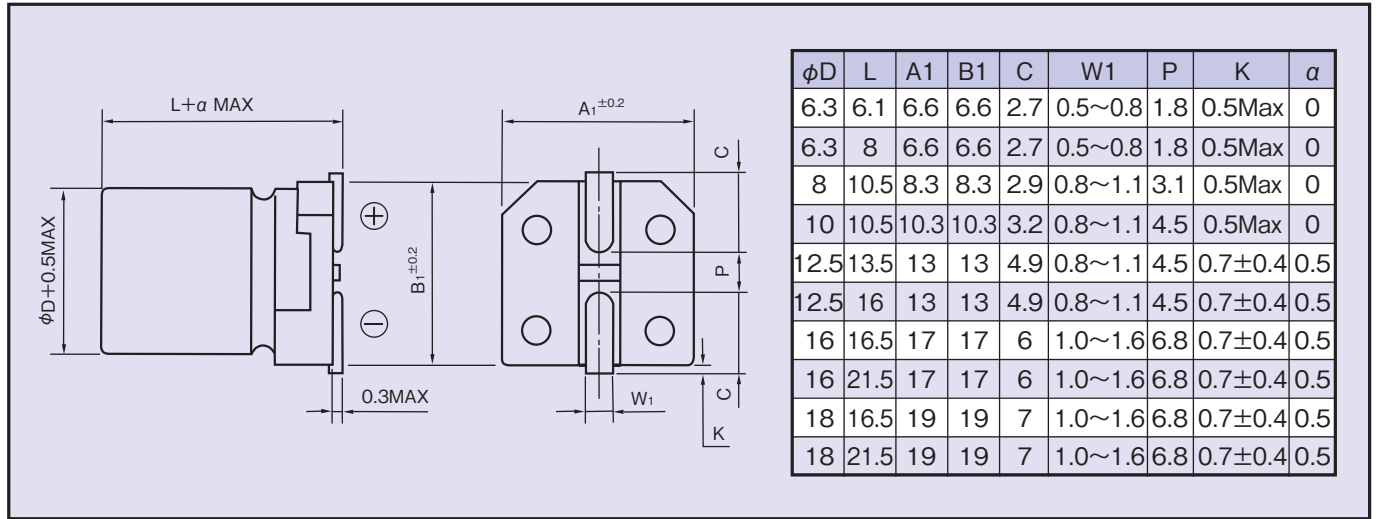
◆PART NUMBER



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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

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