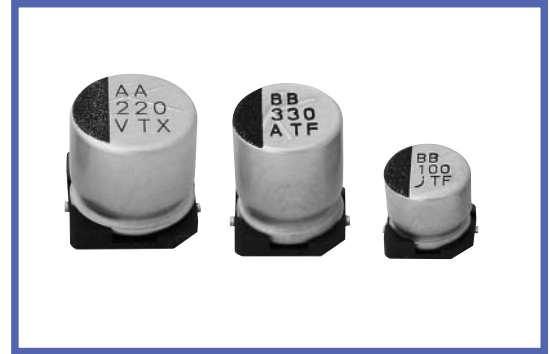


TXV SERIES

125°C Low ESR, Lead Free Reflow Soldering.

◆ **FEATURES**

- Load Life : 125°C1000~2000 hours Low ESR.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

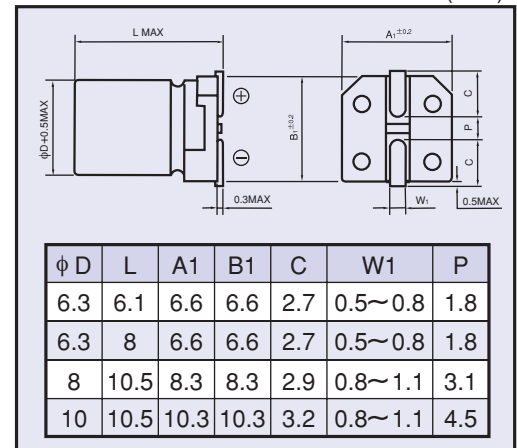


◆ **SPECIFICATIONS**

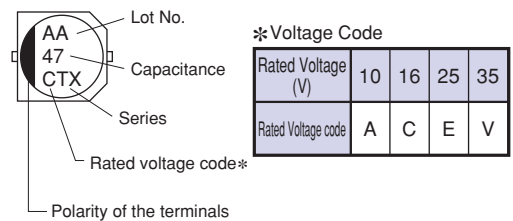
Items	Characteristics													
Category Temperature Range	-40~ +125°C													
Rated Voltage Range	10~35V.DC													
Capacitance Tolerance	±20% (20°C, 120Hz)													
Leakage Current(MAX)	$I=0.01CV$ or $3 \mu A$ whichever is greater. (After 2 minutes application of rated voltage) I =Leakage Current(μA) C =Rated Capacitance(μF) V =Rated Voltage(V)													
($\tan \delta$) Dissipation Factor(MAX)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> <tr> <td>$\tan \delta$</td> <td>0.3</td> <td>0.2</td> <td>0.18</td> <td>0.16</td> </tr> </table>	Rated Voltage (V)	10	16	25	35	$\tan \delta$	0.3	0.2	0.18	0.16	(20°C, 120Hz)		
Rated Voltage (V)	10	16	25	35										
$\tan \delta$	0.3	0.2	0.18	0.16										
Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 125°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> <td>Case Size</td> <td>LifeTime (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>$\phi D=6.3$</td> <td>1000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>$\phi D \geq 8$</td> <td>2000</td> </tr> </table>		Capacitance Change	Within ±20% of the initial value.	Case Size	LifeTime (hrs)	Dissipation Factor	Not more than 200% of the specified value.	$\phi D=6.3$	1000	Leakage Current	Not more than the specified value.	$\phi D \geq 8$	2000
Capacitance Change	Within ±20% of the initial value.	Case Size	LifeTime (hrs)											
Dissipation Factor	Not more than 200% of the specified value.	$\phi D=6.3$	1000											
Leakage Current	Not more than the specified value.	$\phi D \geq 8$	2000											
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> <tr> <td>$Z(-40^\circ C)/Z(20^\circ C)$</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> </tr> </table>	Rated Voltage (V)	10	16	25	35	$Z(-40^\circ C)/Z(20^\circ C)$	6	4	4	3	(120Hz)		
Rated Voltage (V)	10	16	25	35										
$Z(-40^\circ C)/Z(20^\circ C)$	6	4	4	3										

◆ **DIMENSIONS**

(mm)



◆ **MARKING**



◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)	120	1k	10k	100k ≤
22~33 μF	0.45	0.75	0.90	1.00
47~100 μF	0.50	0.80	0.95	1.00
220~470 μF	0.60	0.85	0.95	1.00

◆ **STANDARD SIZE**

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC)	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
10 (1A)	100	6.3×8	140	0.3	5
	220	6.3×8	110	0.7	11
	470	10×10.5	300	0.2	3
16 (1C)	47	6.3×8	140	0.3	5
		6.3×6.1	70	1	15

WV (V.DC)	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
25 (1E)	33	6.3×6.1	70	1	15
	47	6.3×8	140	0.3	5
	100	6.3×8	110	0.7	11
		8×10.5	300	0.16	2.5
	220	8×10.5	220	0.3	4.5
		10×10.5	420	0.1	1.5
330	10×10.5	300	0.2	3	

WV (V.DC)	Cap (μF)	Size ($\phi D \times L$)	Ripple	ESR	
				20°C	-40°C
35 (1V)	22	6.3×6.1	70	1	15
	33	6.3×8	140	0.3	5
	47	6.3×8	110	0.7	11
		8×10.5	300	0.16	2.5
	100	8×10.5	220	0.3	4.5
		10×10.5	420	0.1	1.5
220	10×10.5	300	0.2	3	

◆ **PART NUMBER**

