

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.

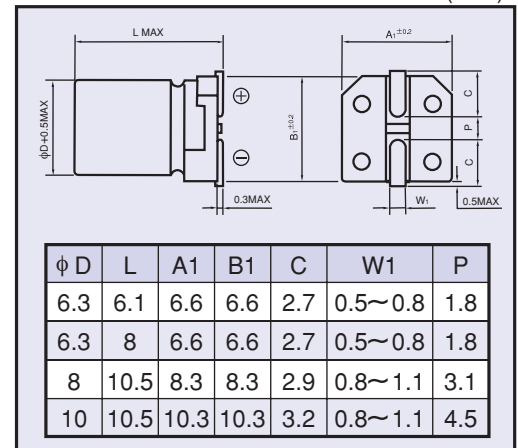


◆ SPECIFICATIONS

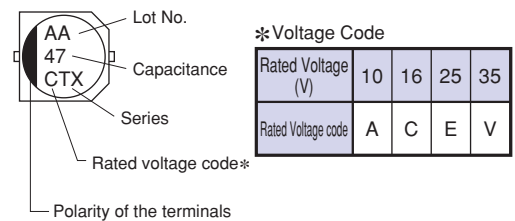
Items	Characteristics													
Category Temperature Range	-40~ +125°C													
Rated Voltage Range	10~35V.DC													
Capacitance Tolerance	±20% (20°C, 120Hz)													
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)													
(tanδ) Dissipation Factor(MAX)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>tan δ</th> <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 δ	0.3	0.2	0.18	0.16	(20°C, 120Hz)		
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tan δ	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> <th>Capacitance Change</th> <td>Within ±20% of the initial value.</td> <th>Case Size</th> <td>φD=6.3</td> <th>LifeTime (hrs)</th> <td>1000</td> </tr> <tr> <th>Dissipation Factor</th> <td>Not more than 200% of the specified value.</td> <th>Leakage Current</th> <td>φ D ≥ 8</td> <td>2000</td> <td></td> </tr> </table>	Capacitance Change	Within ±20% of the initial value.	Case Size	φD=6.3	LifeTime (hrs)	1000	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	φ D ≥ 8	2000		
Capacitance Change	Within ±20% of the initial value.	Case Size	φD=6.3	LifeTime (hrs)	1000									
Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	φ D ≥ 8	2000										
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>Z(-40°C)/Z(20°C)</th> <td>6</td> <td>4</td> <td>4</td> <td>3</td> </tr> </table>	Rated Voltage (V)	10	16	25	35	Z(-40°C)/Z(20°C)	6	4	4	3	(120Hz)		
Rated Voltage (V)	10	16	25	35										
Z(-40°C)/Z(20°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

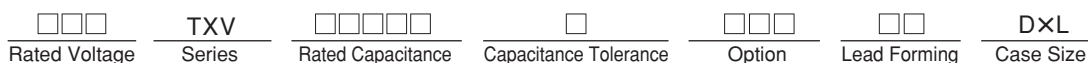
Size φ D×L(mm), Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC)	Cap (μF)	Size (φ D×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 (φ D×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 (φ D×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



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