

TXV SERIES

125°C Low ESR, Lead Free Reflow Soldering.

◆FEATURES

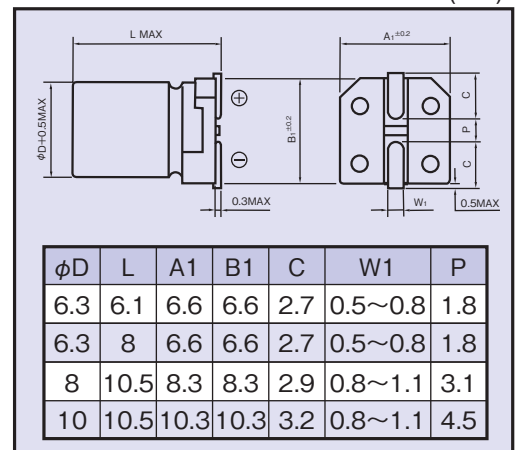
- Load Life : 125°C 1000~2000 hours Low ESR.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



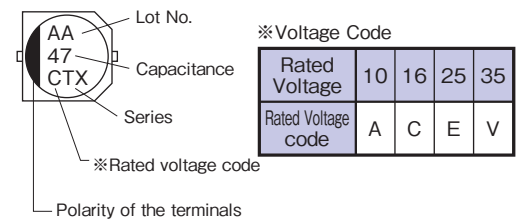
◆SPECIFICATIONS

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 3μA whichever is greater. (After 2 minutes application of rated voltage) I=(μA) Leakage Current C=(μF) Rated Capacitance V=(V) Rated Voltage																			
(tanδ) Dissipation Factor(MAX)	<table border="1"> <tr> <th>Rated Voltage</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>tanδ</th> <td>0.3</td> <td>0.2</td> <td>0.18</td> <td>0.16</td> </tr> </table> (20°C, 120Hz)		Rated Voltage	10	16	25	35	tanδ	0.3	0.2	0.18	0.16								
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Endurance	After applying rated voltage with rated ripple current at conditions stated in the table below at 125°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <th>Capacitance Change</th> <td>Within ±30% of the initial value.</td> <th>Case Size</th> <td>φD=6.3</td> <th>(hrs) LifeTime</th> <td>1000</td> </tr> <tr> <th>Dissipation Factor</th> <td>Not more than 300% of the specified value.</td> <th>φD≥8</th> <td></td> <th></th> <td>2000</td> </tr> <tr> <th>Leakage Current</th> <td>Not more than the specified value.</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Capacitance Change	Within ±30% of the initial value.	Case Size	φD=6.3	(hrs) LifeTime	1000	Dissipation Factor	Not more than 300% of the specified value.	φD≥8			2000	Leakage Current	Not more than the specified value.				
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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> (120Hz)		Rated Voltage(V)	10	16	25	35	Z(-40°C)/Z(20°C)	6	4	4	3								
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◆DIMENSIONS (mm)



◆MARKING



◆MULTIPLIER FOR RIPPLE CURRENT Frequency Coefficient

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

◆STANDARD SIZE Size φD×L(mm), Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

WV (V.DC)	Cap (μF)	Size (φD×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	6.3×6.1	70	1	15
		6.3×8	140	0.3	5

WV (V.DC)	Cap (μF)	Size (φD×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 (φD×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

