

TZV SERIES

105°C Low Impedance, Lead Free Reflow Soldering.

◆FEATURES

- Load Life : 105°C 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Prescribe Impedance value at 100 kHz.
- RoHS compliance.



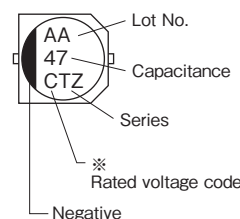
◆SPECIFICATIONS

Items	Characteristics																																
Category Temperature Range	-55~+105°C																																
Rated Voltage Range	6.3~50V.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=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)																																
Dissipation Factor(MAX) (tanδ)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C, 120Hz)	tanδ	0.26	0.19	0.16	0.14	0.12	0.10																	
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tanδ	0.26	0.19	0.16	0.14	0.12	0.10																											
Endurance	<p>After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																										
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> <tr> <td>Z(-55°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	2	2	2	2	2	2		Z(-40°C)/Z(20°C)	3	3	3	3	3	3		Z(-55°C)/Z(20°C)	4	4	4	3	3	3	
Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)																										
Z(-25°C)/Z(20°C)	2	2	2	2	2	2																											
Z(-40°C)/Z(20°C)	3	3	3	3	3	3																											
Z(-55°C)/Z(20°C)	4	4	4	3	3	3																											

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		120	1k	10k	100k≤
Coefficient	4.7μF	0.42	0.60	0.80	1.00
	10~33μF	0.45	0.75	0.90	1.00
	47~100μF	0.50	0.80	0.95	1.00
	220~1000μF	0.60	0.85	0.95	1.00

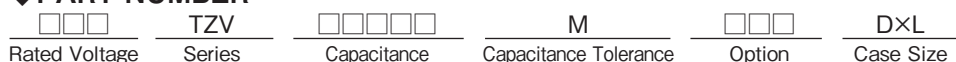
◆MARKING



※ Voltage Code

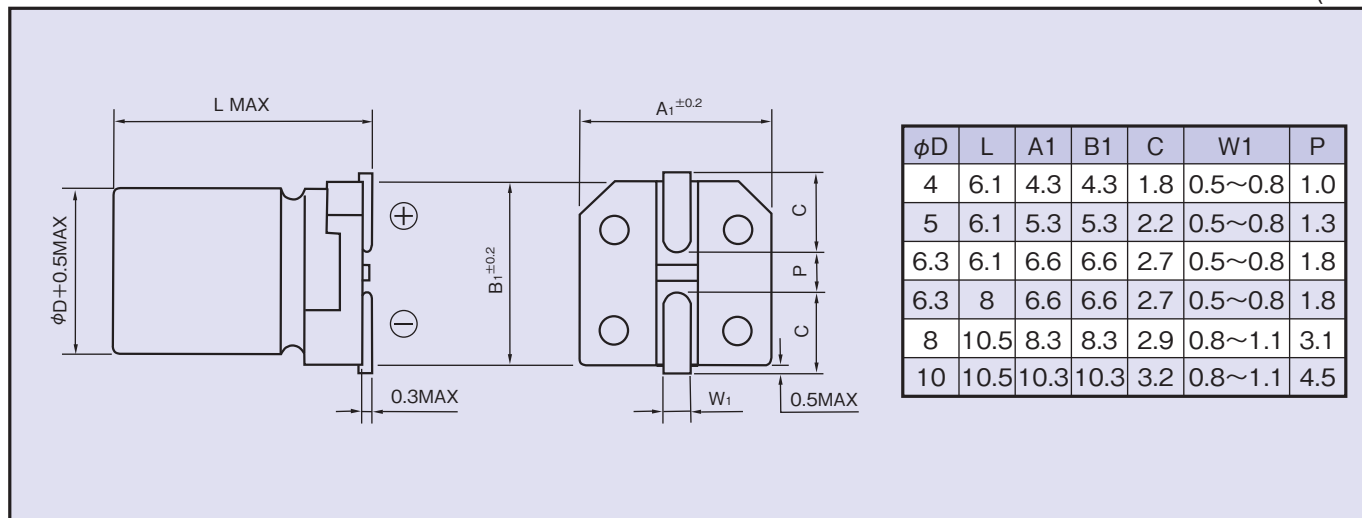
Rated Voltage (V)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆PART NUMBER



◆ DIMENSIONS

(mm)



◆ STANDARD SIZE Size φD×L(mm), Ripple Current (mA r.m.s./105°C, 100kHz), Impedance(Ω MAX/20°C, 100kHz)

V.DC	Cap (μF)	Size (φD×L)	Ripple	Impedance	V.DC	Cap (μF)	Size (φD×L)	Ripple	Impedance
6.3 (0J)	22	4×6.1	90	1.35	25 (1E)	33	5×6.1	170	0.70
	47	4×6.1	90	1.35			6.3×6.1	250	0.36
		5×6.1	170	0.70		47	6.3×6.1	250	0.36
	100	5×6.1	170	0.70			100	6.3×8	300
		6.3×6.1	250	0.36		220	8×10.5	600	0.16
	220	6.3×6.1	250	0.36		330	8×10.5	600	0.16
		6.3×8	300	0.34		470	10×10.5	850	0.09
	330	6.3×8	300	0.34			35 (1V)	4.7	4×6.1
1000	8×10.5	600	0.16	10	4×6.1	90		1.45	
	33	4×6.1	90		1.35	5×6.1		170	0.70
10 (1A)	220	6.3×8	300	0.34	22	5×6.1		170	0.70
	470	8×10.5	600	0.16		6.3×6.1		250	0.36
	680	8×10.5	600	0.16	33	6.3×6.1		250	0.36
	1000	10×10.5	850	0.08		47		6.3×6.1	250
	6.3×8	300	0.34	6.3×8	300			0.34	
16 (1C)	10	4×6.1	90	1.35	100	6.3×8	300	0.34	
	22	4×6.1	90	1.35		8×10.5	600	0.16	
		5×6.1	170	0.70	220	8×10.5	600	0.16	
	33	5×6.1	170	0.70		330	10×10.5	850	0.09
	47	5×6.1	170	0.70	50 (1H)	4.7	4×6.1	60	2.90
		6.3×6.1	250	0.36		10	5×6.1	85	1.52
	100	6.3×6.1	250	0.36			6.3×6.1	165	0.88
		6.3×8	300	0.34		22	6.3×6.1	165	0.88
	220	6.3×8	300	0.34			33	6.3×8	195
	330	8×10.5	600	0.16		47	6.3×8	195	0.68
470	8×10.5	600	0.16	100		8×10.5	350	0.34	
680	10×10.5	850	0.08	220		10×10.5	670	0.18	

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