

TZV SERIES
105°C Low Impedance

- Load Life : 105°C 2000 hours.
- AEC-Q200.
- High Temperature Reflow soldering is available. (JZV series)
(http://www.rubycon.co.jp/catalog/j_pdfs/aluminum/j_JZV.pdf)

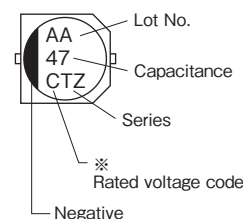
RoHS
compliance


◆SPECIFICATIONS

Items	Characteristics																																		
Category Temperature Range	-55~+105℃																																		
Rated Voltage Range	6.3~50Vdc																																		
Capacitance Tolerance	±20% (20℃,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><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</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></tr></table> (20℃,120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	tanδ	0.26	0.19	0.16	0.14	0.12	0.10														
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Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">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><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z(-55℃)/Z(20℃)</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	Z(-25℃)/Z(20℃)	2	2	2	2	2	2	Z(-40℃)/Z(20℃)	3	3	3	3	3	3	Z(-55℃)/Z(20℃)	4	4	4	3	3	3
Rated Voltage (Vdc)	6.3	10	16	25	35	50																													
Z(-25℃)/Z(20℃)	2	2	2	2	2	2																													
Z(-40℃)/Z(20℃)	3	3	3	3	3	3																													
Z(-55℃)/Z(20℃)	4	4	4	3	3	3																													

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k≤
4.7μF	0.30	0.60	0.80	1.00
10~47μF	0.32	0.75	0.90	1.00
100μF	0.50	0.80	0.95	1.00
220~1000μF	0.60	0.85	0.95	1.00

◆MARKING


※Voltage Code

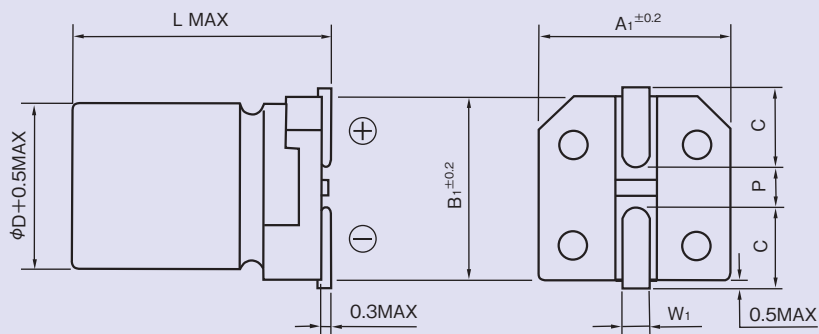
Rated Voltage (Vdc)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆PART NUMBER

□□□ TZV □□□□□ M □□□ D×L
 Rated Voltage Series Capacitance Capacitance Tolerance Option Case Size

◆ DIMENSIONS

(mm)



φD	L	A1	B1	C	W1	P
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5

◆ STANDARD SIZE

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

Vdc	Cap (μF)	Size (φD×L)	Ripple	Impedance
6.3	22	4×6.1	90	1.35
	47	4×6.1	90	1.35
		5×6.1	170	0.70
	100	5×6.1	170	0.70
		6.3×6.1	250	0.36
	220	6.3×6.1	250	0.36
		6.3×8	300	0.34
	330	6.3×8	300	0.34
10	1000	8×10.5	600	0.16
	33	4×6.1	90	1.35
	220	6.3×8	300	0.34
	470	8×10.5	600	0.16
	680	8×10.5	600	0.16
16	1000	10×10.5	850	0.08
	10	4×6.1	90	1.35
	22	4×6.1	90	1.35
		5×6.1	170	0.70
	33	5×6.1	170	0.70
	47	5×6.1	170	0.70
		6.3×6.1	250	0.36
	100	6.3×6.1	250	0.36
		6.3×8	300	0.34
	220	6.3×8	300	0.34
	330	8×10.5	600	0.16
	470	8×10.5	600	0.16
	680	10×10.5	850	0.08

Vdc	Cap (μF)	Size (φD×L)	Ripple	Impedance
25	33	5×6.1	170	0.70
		6.3×6.1	250	0.36
	47	6.3×6.1	250	0.36
	100	6.3×8	300	0.34
	220	8×10.5	600	0.16
	330	8×10.5	600	0.16
	470	10×10.5	850	0.09
35	4.7	4×6.1	90	1.45
	10	4×6.1	90	1.45
		5×6.1	170	0.70
	22	5×6.1	170	0.70
		6.3×6.1	250	0.36
	33	6.3×6.1	250	0.36
	47	6.3×6.1	250	0.36
		6.3×8	300	0.34
	100	6.3×8	300	0.34
		8×10.5	600	0.16
50	220	8×10.5	600	0.16
	330	10×10.5	850	0.09
	4.7	4×6.1	60	2.90
	10	5×6.1	85	1.52
		6.3×6.1	165	0.88
	22	6.3×6.1	165	0.88
	33	6.3×8	195	0.68
	47	6.3×8	195	0.68
	100	8×10.5	350	0.34
	220	10×10.5	670	0.18