

JZV SERIES
105°C Low Impedance, High Temperature Reflow Soldering.
◆FEATURES

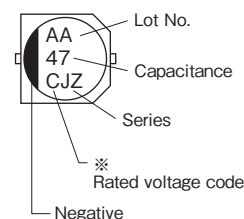
- Load Life : 105°C 2000 hours.
- High Temperature reflow soldering is available.
- Available for high density mounting.
- Prescribe Impedance value at 100 kHz.
- RoHS compliance.


◆SPECIFICATIONS

Items	Characteristics																													
Category Temperature Range	−55~+105℃																													
Rated Voltage Range	6.3~35V.DC																													
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(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></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></tr></table> (20℃,120Hz)						Rated Voltage (V)	6.3	10	16	25	35	tanδ	0.26	0.19	0.16	0.14	0.12												
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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 border="1"><tr><td>Capacitance Change</td><td colspan="5">Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="5">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="5">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></tr><tr><td>Z(−25℃)/Z(20℃)</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></tr><tr><td>Z(−55℃)/Z(20℃)</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)						Rated Voltage (V)	6.3	10	16	25	35	Z(−25℃)/Z(20℃)	2	2	2	2	2	Z(−40℃)/Z(20℃)	3	3	3	3	3	Z(−55℃)/Z(20℃)	4	4	4	3	3
Rated Voltage (V)	6.3	10	16	25	35																									
Z(−25℃)/Z(20℃)	2	2	2	2	2																									
Z(−40℃)/Z(20℃)	3	3	3	3	3																									
Z(−55℃)/Z(20℃)	4	4	4	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

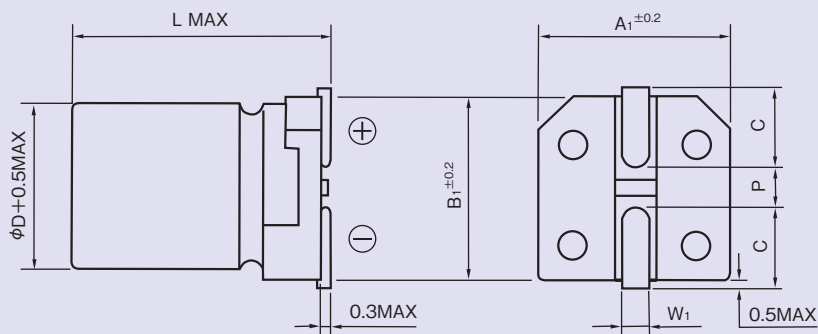
Rated Voltage (V)	6.3	10	16	25	35
Rated Voltage code	j	A	C	E	V

◆PART NUMBER

□□□	JZV	□□□□□	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 $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz), Impedance ($\Omega \text{ MAX}/20^\circ\text{C}$, 100kHz)

V.DC Cap (μF)	6.3 (0J)			10 (1A)			16 (1C)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10							4×6.1	90	1.35
22	4×6.1	90	1.35				4×6.1	90	1.35
							5×6.1	170	0.70
33				4×6.1	90	1.35	5×6.1	170	0.70
47	4×6.1	90	1.35				5×6.1	170	0.70
	5×6.1	170	0.70				6.3×6.1	250	0.36
100	5×6.1	170	0.70				6.3×6.1	250	0.36
	6.3×6.1	250	0.36				6.3×8	300	0.34
220	6.3×6.1	250	0.36	6.3×8	300	0.34	6.3×8	300	0.34
	6.3×8	300	0.34						
330	6.3×8	300	0.34				8×10.5	600	0.16
470				8×10.5	600	0.16	8×10.5	600	0.16
680				8×10.5	600	0.16	10×10.5	850	0.08
1000	8×10.5	600	0.16	10×10.5	850	0.08			

V.DC Cap (μF)	25 (1E)			35 (1V)		
	Size	Ripple	Impedance	Size	Ripple	Impedance
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	5×6.1	170	0.70	6.3×6.1	250	0.36
	6.3×6.1	250	0.36			
47	6.3×6.1	250	0.36	6.3×6.1	250	0.36
				6.3×8	300	0.34
100	6.3×8	300	0.34	6.3×8	300	0.34
				8×10.5	600	0.16
220	8×10.5	600	0.16	8×10.5	600	0.16
330	8×10.5	600	0.16	10×10.5	850	0.09
470	10×10.5	850	0.09			