

JGV SERIES

105°C Long Life, High Temperature Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 2000 hours.
- High Temperature reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



◆ SPECIFICATIONS

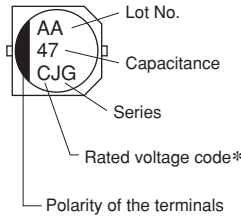
Items	Characteristics																							
Category Temperature Range	-55 ~+105°C																							
Rated Voltage Range	6.3~50V.DC																							
Capacitance Tolerance	± 20%(20°C,120Hz)																							
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																							
Dissipation Factor(MAX) (tanδ)	<table><tr><th colspan="2">Rated Voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr><tr><td rowspan="2">tanδ</td><td>φ 4, φ 5, φ 6.3×6.1</td><td>0.30</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td></tr><tr><td>φ 6.3×8, φ 8~φ 10</td><td>0.35</td><td>0.26</td><td>0.24</td><td>0.18</td><td>0.14</td><td>0.12</td></tr></table> (20°C,120Hz)	Rated Voltage (V)		6.3	10	16	25	35	50	tanδ	φ 4, φ 5, φ 6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	φ 6.3×8, φ 8~φ 10	0.35	0.26	0.24	0.18	0.14	0.12
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Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±25% 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 ±25% 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><th>Rated Voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr><tr><td>Z(-25°C)/Z(20°C)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40°C)/Z(20°C)</td><td>8</td><td>8</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	50	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	Z(-40°C)/Z(20°C)	8	8	4	4	3	3		
Rated Voltage (V)	6.3	10	16	25	35	50																		
Z(-25°C)/Z(20°C)	4	3	2	2	2	2																		
Z(-40°C)/Z(20°C)	8	8	4	4	3	3																		

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20

◆ MARKING



*Voltage Code

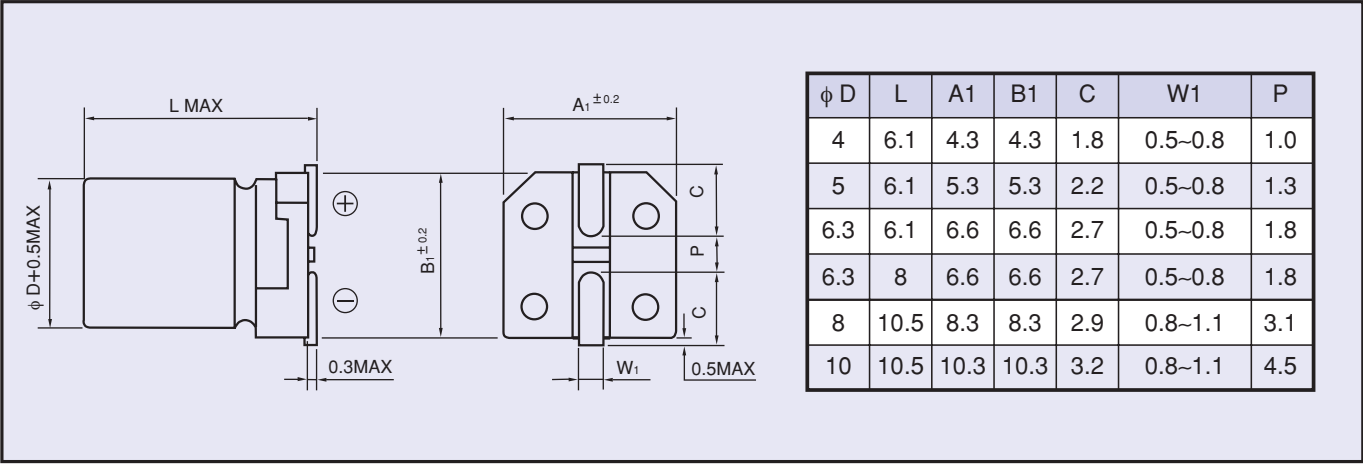
Rated Voltage (V)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆ PART NUMBER

Rated Voltage JGV Series Rated Capacitance Capacitance Tolerance Option Case Size

◆DIMENSIONS

(mm)



◆STANDARD SIZE

Size φ D×L(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

WV(V.DC) Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4×6.1	1.0
0.22											4×6.1	2.6
0.33											4×6.1	3.2
0.47											4×6.1	4.0
1											4×6.1	8.0
2.2											4×6.1	11
3.3											4×6.1	14
4.7									4×6.1	15	5×6.1	19
10					4×6.1	28			5×6.1	28	6.3×6.1	35
22	4×6.1	26			5×6.1	39			6.3×6.1	55	6.3×8	67
33	4×6.1	29	5×6.1	43			6.3×6.1	65	6.3×8	76	8×10.5	140
47	5×6.1	46			6.3×6.1	70	6.3×8	79			8×10.5 10×10.5	167 180
100	6.3×6.1	71	6.3×6.1	71	6.3×8	111	8×10.5	180	8×10.5 10×10.5	180 305	8×10.5 10×10.5	230 315
220	6.3×8	121			8×10.5	185	8×10.5 10×10.5	320 355	10×10.5	450		
330			8×10.5	195	8×10.5 10×10.5	290 440	10×10.5	450				
470	8×10.5	210	8×10.5 10×10.5	210 440	8×10.5 10×10.5	320 460	10×10.5	490				
1000	10×10.5	495										