

JGV SERIES

105°C Standard, High Temperature Reflow Soldering

- Load Life : 105°C 2000 hours.
- AEC-Q200.



◆ SPECIFICATIONS

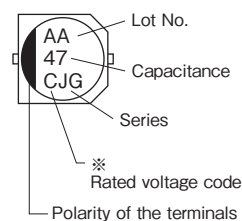
Items	Characteristics																							
Category Temperature Range	-55~+105°C																							
Rated Voltage Range	6.3~50Vdc																							
Capacitance Tolerance	±20% (20°C, 120Hz)																							
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																							
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th colspan="2">Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td rowspan="2">tanδ</td> <td>φ4,φ5,φ6.3×6.1</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>φ6.3×8,φ8~φ10</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> </tbody> </table> <p>(20°C, 120Hz)</p>	Rated Voltage (Vdc)		6.3	10	16	25	35	50	tanδ	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	φ6.3×8,φ8~φ10	0.35	0.26	0.24	0.18	0.14	0.12
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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 ±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 border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>(120Hz)</p>	Rated Voltage (Vdc)	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 (Vdc)	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	0.47~1μF	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

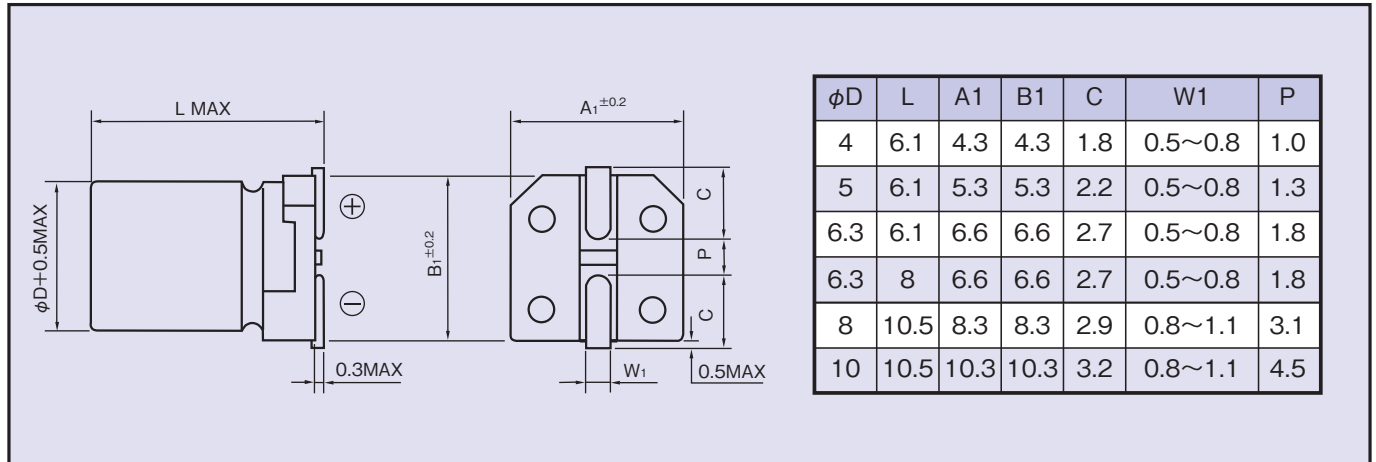
Rated Voltage (Vdc)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆ PART NUMBER



◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

Vdc Cap(μF)	6.3		10		16		25		35		50		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
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	167	
											10×10.5	180	
100	6.3×6.1	71	6.3×6.1	71	6.3×8	111	8×10.5	180	8×10.5	180	8×10.5	230	
									10×10.5	305	10×10.5	315	
220	6.3×8	121			8×10.5	185	8×10.5	320	10×10.5	450			
							10×10.5	355					
330			8×10.5	195	8×10.5	290	10×10.5	450					
					10×10.5	440							
470	8×10.5	210	8×10.5	210	8×10.5	320	10×10.5	490					
			10×10.5	440	10×10.5	460							
1000	10×10.5	495											