JEV SERIES NEW

85°C Standard, High Temperature Reflow Soldering.

◆FEATURES

- Case Dia φ4 ~ φ10mm
- High Temperature reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40 ~+85°C
Rated Voltage Range	6.3 ~50V.DC
Capacitance Tolerance	±20% (20°C, 120Hz)
Leakage Current(MAX)	I=0.01CV or 3 μA 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)	(20°C, 120Hz)
Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 85°C, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (V)		6.3	10	16	25	35	50
tanδ	φ4,φ5,φ6.3×5.5	0.26	0.22	0.18	0.16	0.13	0.12
	φ6.3×8,φ8~φ10	0.35	0.26	0.20	0.16	0.14	0.12

When rated capacitance is over 1000 μF, tanδ shall be added 0.02 to the listed value with increase of every 1000 μF.

Endurance

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.

Low Temperature Stability Impedance Ratio(MAX)

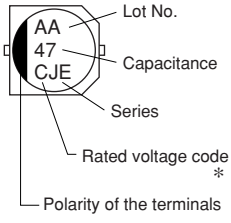
Rated Voltage (V)	6.3	10	16	25	35	50
Z(−25°C) /Z(20°C)	4	3	2	2	2	2
Z(−40°C) /Z(20°C)	8	8	4	4	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

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

◆MARKING



*Voltage Code

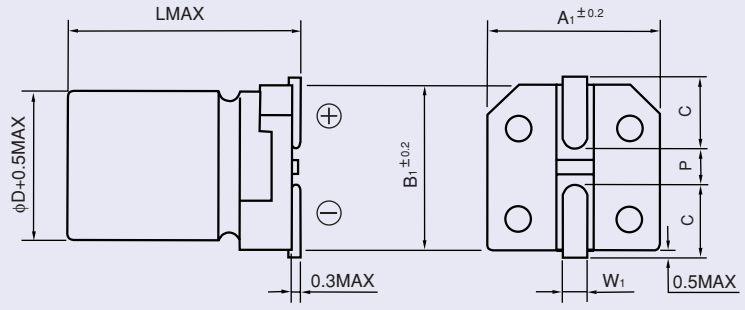
Rated Voltage (V)	6.3	10	16	25	35	50
Rated Voltage code	j	A	C	E	V	H

◆PART NUMBER

□□□ Rated Voltage | JEV Series | □□□□□ Rated Capacitance | □ Capacitance Tolerance | □□□ Option | D×L Case Size

◆DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3
6.3	5.5	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, RATED RIPPLE CURRENT

Size ϕD×L(mm), Ripple Current (mA r.m.s./85°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 × 5.5	1.0
0.22											4 × 5.5	2.0
0.33											4 × 5.5	2.8
0.47											4 × 5.5	4.0
1											4 × 5.5	8.4
2.2											4 × 5.5	14
3.3											4 × 5.5	17
4.7							4 × 5.5	18	4 × 5.5	18	4 × 5.5	18
											5 × 5.5	22
10					4 × 5.5	25	4 × 5.5	25	5 × 5.5	30	5 × 5.5	30
											6.3 × 5.5	35
22	4 × 5.5	29			4 × 5.5	30			6.3 × 5.5	48	6.3 × 5.5	48
					5 × 5.5	39						
33			5 × 5.5	43	5 × 5.5	43	6.3 × 5.5	54	6.3 × 5.5	58	6.3 × 8	95
											8 × 10.5	200
47	5 × 5.5	46			5 × 5.5	50	6.3 × 5.5	60	6.3 × 8	105	8 × 10.5	240
					6.3 × 5.5	60					10 × 10.5	280
100	6.3 × 5.5	71	6.3 × 5.5	71	6.3 × 5.5	86	6.3 × 8	145	8 × 10.5	280	8 × 10.5	320
									10 × 10.5	480	10 × 10.5	500
220			6.3 × 8	175	8 × 10.5	290	8 × 10.5	300	10 × 10.5	570		
							10 × 10.5	560				
330	6.3 × 8	190	8 × 10.5	330	8 × 10.5	330	10 × 10.5	680				
					10 × 10.5	670						
470	8 × 10.5	380	8 × 10.5	380	8 × 10.5	385						
			10 × 10.5	680	10 × 10.5	690						
1000	10 × 10.5	700										