

SMD Aluminum Electrolytic Capacitor – JCA

FEATURES

- Endurance : 105°C 5000H
- Designed for High Voltage
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB



Fig 1

Fig 2

Fig 3

Note: Fig 1 & 2: Diameter 4 ~ 10mm

Fig 3 : Diameter: ≥ 12.5mm

SPECIFICATIONS

Category Temperature Range
Rated Voltage Range
Capacitance Range
Capacitance Tolerance

-40°C ~ +105°C

400V.DC

1 ~ 22μF

±20% (120Hz, 20°C)

Leakage Current

$I \leq 0.04CV (\mu A) + 100 (\mu A)$ after 5 minutes

I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V)

Dissipation Factor (MAX)
Tan δ (20°C, 120Hz)

Rated Voltage (V)	400
Tan δ	0.25

Endurance

After applying rated working voltage for 5000 hours at +105°C ± 2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.

Capacitance Change	Within ± 30% of the initial value
Dissipation Factor	Less than 300% of the initial value
Leakage Current	Within the initial limit

Shelf Life

After storage for 1000h at +105°C ± 2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.

After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.

Resistance to Soldering Heat

Capacitance Change	Within ± 10% of initial value
Dissipation Factor	Within the initial limit
Leakage Current	Within the initial limit

Characteristics at Low Temperature

Impedance ratio at 120 Hz	
Rated Voltage (V)	400
Z-25°C / Z+20°C	6
Z-40°C / Z+20°C	10

DRAWING (Unit: mm)

Fig. 4 (Φ8 ~ Φ10)

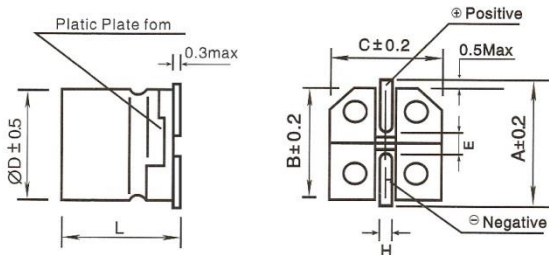
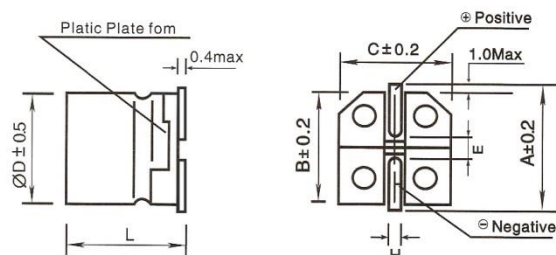


Fig. 5 (≥Φ12.5)



Surface Marking Types: jbA, UD, VD, JVD

ΦD	L	A	B	C	E	H	Fig. No.
8	10.5 ± 0.6	9.1	8.3	8.3	3.1	0.8 ~ 1.1	4
8	12.5 ± 0.6	9.1	8.3	8.3	3.1	0.8 ~ 1.1	4
10	10.5 ± 1.0	11.1	10.3	10.3	4.5	0.8 ~ 1.1	4
10	12.5 ± 1.0	11.1	10.3	10.3	4.5	0.8 ~ 1.1	4

Please visit our website to get more update data, those data & specification are subject to change without notice.

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FREQUENCY COEFFICIENT

Frequency	50Hz	120Hz	1kHz	10kHz \cong
Coefficient	0.70	1.00	1.30	1.40

STANDARD SIZE

Cap/ μ F	WV/V	400		
		2G		
2.2	2R2	8x10.5	0.25	15
3.3	3R3	8x10.5	0.25	20
4.7	4R7	8x10.5	0.25	25
		(8x12.5)	(0.25)	(30)
5.6	5R6	(10x10.5)	(0.25)	(30)
		8x12.5	0.25	35
6.8	6R8	(10x10.5)	(0.25)	(35)
		10x10.5	0.25	45
8.2	8R2	10x12.5	0.25	55
10	100	10x12.5	0.25	60
---	---	Case Size \varnothing DxL(mm)	$\tan \delta$ (120Hz / +20 $^{\circ}$ C)	Rated ripple current (120Hz / +105 $^{\circ}$ C)

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