

SMD Aluminum Electrolytic Capacitor – JCV

FEATURES

- Life time 105°C 3000hrs standard product
- High stability and reliability
- Reflow soldering is available
- Available for high density surface mounting



SPECIFICATIONS

| | |
|----------------------------|---|
| Category Temperature Range | -40°C ~ +105°C |
| Rated Voltage Range | 160V ~ 450V.DC |
| Capacitance Range | 1 ~ 22μF |
| Capacitance Tolerance | ±20% (120Hz, 20°C) |
| Leakage Current | I = 0.04CV (μA) + 100 (μA) after 2 minutes I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V) |

| | | | |
|---------------------|-----------|-----------|------|
| Rated Voltage (V) | 160 ~ 200 | 250 ~ 400 | 450 |
| Tan δ (20°C, 120Hz) | 0.20 | 0.25 | 0.30 |

In 105°C degrees Celsius environment, continuous application of rated voltage for 3000 hours, after 16 hours was measured at room temperature, the capacitors shall meet the following requirements :

| | | |
|-----------|--------------------|---|
| Load Life | Capacitance Change | Within ± 30% of the initial value |
| | Dissipation Factor | Not more than 300% of the specified value |
| | Leakage Current | Not more than the specified value |

After storage for 1000hrs at 105°C, then resumed 16 hours, the capacitors shall meet the following requirements

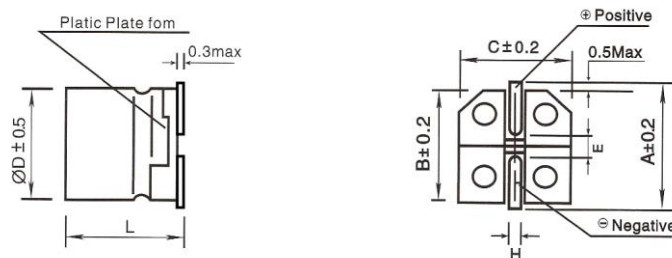
| | | |
|------------|--------------------|---|
| Shelf Life | Capacitance Change | Within ± 30% of the initial value |
| | Dissipation Factor | Not more than 300% of the specified value |
| | Leakage Current | Within 300% of initial specified value |

The capacitors shall be kept on then hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement:

| | | |
|------------------------------|--------------------|---|
| Resistance to Soldering Heat | Capacitance Change | Within ± 10% of initial value |
| | Dissipation Factor | Not more than the initial specified value |
| | Leakage Current | Not more than the initial specified value |

| | | | | |
|---|-------------------|-----------|-----------|-----|
| Low Temperature Stability Impedance Ratio (MAX) 120Hz | Rated Voltage (V) | 160 ~ 200 | 250 ~ 400 | 450 |
| | Z-25°C / Z+20°C | 6 | 10 | 12 |
| | Z-55°C / Z+20°C | 8 | 12 | 15 |

DRAWING (Unit: mm)



| ΦD | L | A | B | C | E | H |
|----|------------|------|------|------|-----|-----------|
| 8 | 10.5 ± 0.5 | 9.1 | 8.3 | 8.3 | 3.1 | 0.8 ~ 1.1 |
| 8 | 12.5 ± 0.5 | 9.1 | 8.3 | 8.3 | 3.1 | 0.8 ~ 1.1 |
| 10 | 10.5 ± 0.5 | 11.1 | 10.3 | 10.3 | 4.5 | 0.8 ~ 1.1 |
| 10 | 12.5 ± 0.5 | 11.1 | 10.3 | 10.3 | 4.5 | 0.8 ~ 1.1 |

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 | 120Hz | 1kHz | 10kHz | 120kHz |
| Coefficient | 1.00 | 1.25 | 1.40 | 1.60 |

STANDARD SIZE

| WV | 160 | | | 200 | | | 250 | | | 400 | | | 450 | | | |
|-----|---------|------|-------|---------|------|-------|---------|------|-------|---------|------|-------|---------|--------|-------|----|
| | μF | DxL | Tan δ | mA | DxL | Tan δ | mA | DxL | Tan δ | mA | DxL | Tan δ | mA | DxL | Tan δ | mA |
| 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8x10.5 | 0.30 | 13 |
| 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8x10.5 | 0.30 | 16 |
| 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8x10.5 | 0.30 | 18 |
| 3.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8x10.5 | 0.25 | 18 | 8x12.5 | 0.30 | 22 | |
| 4.7 | -- | -- | -- | 8x10.5 | 0.20 | 22 | 8x10.5 | 0.25 | 23 | 8x10.5 | 0.25 | 28 | 10x10.5 | 0.30 | 32 | |
| 5.6 | -- | -- | -- | 8x10.5 | 0.20 | 24 | 8x10.5 | 0.25 | 25 | 8x12.5 | 0.25 | 34 | 10x12.5 | 0.30 | 43 | |
| 6.8 | -- | -- | -- | 8x10.5 | 0.20 | 27 | 8x10.5 | 0.25 | 27 | 10x10.5 | 0.25 | 40 | 10x12.5 | 0.30 | 48 | |
| 8.2 | 8x10.5 | 0.20 | 32 | 8x10.5 | 0.20 | 30 | 10x10.5 | 0.25 | 33 | 10x12.5 | 0.25 | 47 | -- | -- | -- | |
| 10 | 8x10.5 | 0.20 | 39 | 8x12.5 | 0.20 | 34 | 10x10.5 | 0.25 | 41 | 10x12.5 | 0.25 | 53 | -- | -- | -- | |
| 12 | 8x10.5 | 0.20 | 42 | 8x12.5 | 0.20 | 37 | 10x10.5 | 0.25 | 45 | -- | -- | -- | -- | -- | -- | |
| 15 | 10x10.5 | 0.20 | 50 | 10x10.5 | 0.20 | 48 | 10x12.5 | 0.25 | 60 | -- | -- | -- | -- | -- | -- | |
| 22 | 10x12.5 | 0.20 | 57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Rated ripple current (mA, 105°C, 120Hz)

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