

METALLIZED POLYESTER FILM CAPACITORSMEC

SPECIFICATIONS:

1. OPERATING TEMPERATURE

-40 to +85°C

2. RATED VOLTAGE

63, 100, 250, 400, 630 V DC 50 ~ 60 Hz

3. CAPACITANCE RANGE

0.0047 to 6.8 μ F

4. DIELECTRIC STRENGTH

175% of rated voltage for 5 sec.

5. CAPACITANCE TOLERANCE

\pm 5% (J) \pm 10% (K)

6. INSULATION RESISTANCE

$C \leq 0.33 \mu\text{F}$ and $\leq 100\text{VDC}$ $IR \geq 15,000 \text{ M}\Omega$
 $C > 0.33 \mu\text{F}$ and $\leq 100\text{VDC}$ $IR \geq 5,000 \text{ M}\Omega/\mu\text{F}$
 $C \leq 0.33 \mu\text{F}$ and $> 100\text{VDC}$ $IR \geq 30,000 \text{ M}\Omega$
 $C > 0.33 \mu\text{F}$ and $> 100\text{VDC}$ $IR \geq 10,000 \text{ M}\Omega/\mu\text{F}$

7. DISSIPATION FACTOR

Max. 1% when measured at 1 kHz & 25°C

8. TENSILE STRANGTH OF ELECTRODES:

TEST CONDITION

Load force : 1.0kg

Holding Times: 10 \pm 1 sec.

TEST CRITERIA

No wire breakage and no damage of the capacitor.

9. BENDING STRENGTH OF ELECTRODES:

TEST CONDITION

Load Force : 0.5kg

Bending Times: Two consecutive bends(4X90°C)in 5 sec.

TEST CRITERIA

No wire breakage and no damage of the capacitor.

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10. VIBRATION RESISTANCE:

TEST CONDITION

Frequency cycle : 1 minute per cycles 10-55-10Hz
Test Duration : Perpendicular direction with the same method for 45 minutes esth,
total of 90 minutes.

TEST CRITERIA

(1) Appearance : No visible damage
(2) Contact : Normal

11. SOLDERABILITY:

TEST CONDITION

Solder Bath Temperature : $260 \pm 5^\circ\text{C}$
Solder Time : 2 ± 0.5 sec.

TEST CRITERIA

3/4 of the surface tinning

12. HEAT SHOCK TEST:

TEST CONDITION

The Electrodes of capacitor shall be immersed in the emitting solder.

Solder Bath Temperature : $260 \pm 5^\circ\text{C}$

Solder Time : 3 ± 0.5 sec.

Testing Voltage : 175% of the rated voltage for 1 minute

TEST CRITERIA

(1) Appearance : No visible damage
(2) Withstand Voltage : Normal
(3) Capacitance Change : $\leq \pm 3\%$ of the initial value.

13. COLD RESISTANCE:

TEST CONDITION

Test Temperature : $-40 \pm 2^\circ\text{C}$

Test Duration : 2 hrs

TEST CRITERIA

(1) Appearance : No visible damage
(2) Capacitance Change : $\leq +0\%, -5\%$ (-40°C) of the initial value.

14. DRY HEAT RESISTANCE:

TEST CONDITION

Test Temperature : $85 \pm 2^\circ\text{C}$

Test Duration : 2 hrs

TEST CRITERIA(at 85°C)

Capacitance Change : $\leq +5\%, -2\%$ of the initial value

15. HUMIDITY RESISTANCE:

TEST CONDITION

Test Temperature : $40 \pm 2^\circ\text{C}$

Relative Humidity: 90 to 95%

Test Duration : 240 ± 8 hrs than condition at standard state 16 hrs.

Test Voltage : 175% of the rated voltage for 5 sec

TEST CRITERIA

(1) Appearance : No visible damage
(2) Capacitance Change : $\leq \pm 5\%$ of the initial value
(3) IR : Over $3000\text{M}\Omega/\mu\text{F}$
(4) Withstand Voltage : Normal