Metallized Polyester Film Capacitors

(Automotive)

Main Application
Blocking, bypassing, filtering, timing, coupling and decoupling, interference suppression in low voltage applications, low pulse operations.

Construction
Low inductive wound cell of metallized polyester film encased in flame retardant box.

Climatic Category
40/100/56

Maximum Operating Temperature
100°C

Applicable Specification
IEC 384-2

Capacitance Value
As per customer requirement.

Capacitance Tolerance
±5%, ±10%

Insulation Resistance
Minimum Insulation Resistance \( R_{\text{is}} \)

(\text{or}) time constant \( T = C_s \times R_{\text{is}} \)

at 25°C, relative humidity ≤ 65% \( \leq 100 \text{ V DC} \)

100 V DC

1250 s

3750 MΩ

7500 MΩ

Rated Voltage
100VDC-250VDC

Voltage Proof
Between terminals: 1.6 times of rated voltage for 2 sec.

\( \tan \delta \)
Frequency
\( C_n < 0.1 \mu F \)
\( 0.1 \mu F < C_n < 1 \mu F \)
\( C_n > 1 \mu F \)

1 kHz
0.8%
1.0%
1.5%

10 kHz
1.5%
1.5%
-

100 kHz
3.0%
-
-

Life Test Conditions
(Loading at elevated temperature)

Loaded at 1.25 times of rated voltage at 85°C for 1000 hours.

After The Test
\( \Delta C/C: \leq 8\% \) of initial value.

Increase of \( \tan \delta \): \( \leq 0.003, C_n > 1 \mu F \)

Insulation Resistance: \( \geq 50\% \) of the value mentioned in IR chart.

Note: For more details please contact info@dekielectronics.com