

Metallized Polyester Film Capacitors

Series Code
37

(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_{IS}
(or) time constant $T=C_R \times R_{IS}$
at 25° C, relative humidity ≤ 65%

U_R
≤ 100 V DC
> 100 V DC

Rated Voltage

100VDC-250VDC

Voltage Proof

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

Tan δ

Frequency	$C_R < 0.1\mu F$	$0.1\mu F < C_R \leq 1\mu F$	$C_R > 1\mu F$
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

$\Delta C/C$: ≤ 8% of initial value.

Increase of Tan δ: ≤ 0.003, $C_R > 1\mu F$

Insulation Resistance: ≥ 50% of the value mentioned in IR chart.

$C_R \leq 0.33 \mu F$
3750 MΩ
7500 MΩ

$C_R > 0.33 \mu F$
1250 s
2500 s

