

# Metallized Polyester Film Capacitors

Series Code  
57, 81

## Economic Type Fan Regulator Capacitors (MPET-EC)

**Main Application**

Mainly used in switch type fan regulators.

**Construction**

Low inductive cell of metallized polyester film coated with flame retardant grade epoxy powder.

**Climatic Category**

40/85/21

**Maximum Operating Temperature**

85°C

**Capacitance Value**

1.0µF-6.8µF

**Capacitance Tolerance**

±5%, ±10%

**Rated Voltage**

250VAC

**Voltage Proof**

Between the terminals: 640VDC for 2 sec.

**Tan δ**

0.001 (max) at 1 kHz.

**Insulation Resistance**

(Minimum insulation resistance)  $R_{IS}$  measured at 100VDC for 1 minute.

(or) time constant  $T = C_R \times R_{IS} > 2500$  s

(at 25° C, relative humidity ≤ 70%)

**Life Test Conditions**

**1. Endurance Test**

Loaded at 1.1 times of rated voltage at 70°C for 500 hours.

**After the Test**

$\Delta C/C \leq 5\%$  of initial value

Increase of Tan δ: ≤ 0.004 of initial value at 1 kHz.

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

**2. Switching Test**

20,000 cycles of 4 step / 5 step switch type fan regulator. (Input supply: 240 VAC, Load: Fan motor.)

**After the Test**

$\Delta C/C \leq 5\%$  of initial value.

Increase of Tan δ: ≤ 0.004 of initial value at 1 kHz.

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

**3. Lot to Lot Test**

Loaded at 380 VAC at ambient temperature for 2 hours.

**After the Test**

$\Delta C/C \leq 10\%$  of initial value.

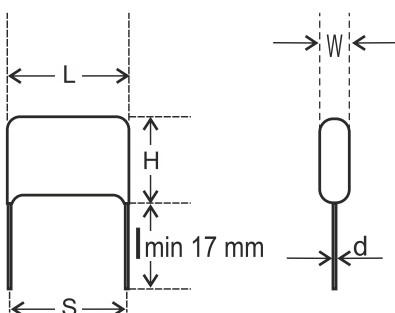
Increase of Tan δ: ≤ 0.004 of initial value at 1 kHz.

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

**Ordering code and packing units: Metallized Polyester Film Capacitors  
Economic Type Fan Regulator Capacitors • MPET-EC • Series Code 57, 81**

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)					Ordering Code	Packing Units Bulk
		W (max)	H (max)	L (max)	d (±0.05)	S (±1.0)		
250Vac	1.0	6.5	15.5	31	0.8	27.5	57/81 105 + 02 ^A	250
	1.5	7.5	16.5	31	0.8	27.5	57/81 155 + 02 ^A	250
	2.2	8.5	18.5	31	0.8	27.5	57/81 225 + 02 ^A	250
	2.5	9.5	19.5	31	0.8	27.5	57/81 255 + 02 ^A	250
	3.3	8.5	22.5	31	0.8	27.5	57/81 335 + 02 ^A	250
	4.0	12.0	22.5	31	0.8	27.5	57/81 405 + 02 ^A	250
	4.3	12.5	22.5	31	0.8	27.5	57/81 435 + 02 ^A	250
	4.6	13.5	23.5	31	0.8	27.5	57/81 465 + 02 ^A	250
	5.5	14.0	24.5	31	0.8	27.5	57/81 555 + 02 ^A	250
	6.8	14.5	27.0	31	0.8	27.5	57/81 685 + 02 ^A	250

Note: Series code 57 indicates capacitor in brown colour and series code 81 indicates orange colour.



Note: For more details please contact [info@dekielelectronics.com](mailto:info@dekielelectronics.com)