

# Metallized Polyester Film Capacitors

Series Code  
46, 98, 102

## Switch Type Fan Regulator Capacitors (MPET-SW)

**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**

0.76µF-5.5µF

**Capacitance Tolerance**

±5%, ±10%

**Rated Voltage**

250VAC

**Voltage Proof**

Between the terminals: 640VDC for 2 sec.

**Tan δ**

0.01 (max) at 1 kHz.

**Insulation Resistance**

(Minimum insulation resistance)  $R_{IS}$

(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**

$\Delta C/C$ : ≤ 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**

$\Delta C/C$ : ≤ 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 440 VAC at ambient temperature for 2 hours.

**After the Test**

$\Delta C/C$ : ≤ 10% of initial value.

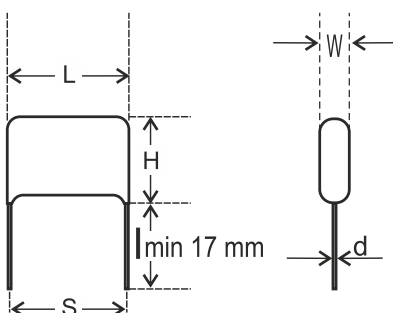
Increase of Tan δ: ≤ 0.004 of initial value at 1 kHz.

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

**Ordering code and packing units: Metallized Polyester Film Capacitors Switch Type Fan Regulator Capacitors MPET-SW • Series Code 46, 98, 102**

Rated Voltage	Rated Cap. (µF)	W (max)	H (max)	Dimensions (mm)			Ordering Code	Packing Units Bulk
				L (max)	d (±0.05)	S (±1.0)		
250VAC	0.76	7.0	12.0	31	0.8	27.5	46/98/102 764 + 02 ^A	250
	1.00	6.5	15.0	31	0.8	27.5	46/98/102 105 + 02 ^A	250
	1.50	7.5	18.0	31	0.8	27.5	46/98/102 155 + 02 ^A	250
	2.20	8.0	21.5	31	0.8	27.5	46/98/102 225 + 02 ^A	250
	2.50	10.5	20.5	31	0.8	27.5	46/98/102 255 + 02 ^A	250
	3.30	10.5	20.5	31	0.8	27.5	46/98/102 335 + 02 ^A	250
	4.00	13.5	22.0	31	0.8	27.5	46/98/102 405 + 02 ^A	250
	4.30	11.5	26.0	31	0.8	27.5	46/98/102 435 + 02 ^A	250
	4.60	14.0	23.5	31	0.8	27.5	46/98/102 465 + 02 ^A	250
	5.50	15.0	25.0	31	0.8	27.5	46/98/102 555 + 02 ^A	250

Note: Series code 46 indicates capacitor in brown colour and series codes 98 and 102 indicate orange colour.



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