

Metallized Polyester Film Capacitors

Series Code
77, 82, 83

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

Main Application

Mainly used in switch type fan regulators.

Construction

Low inductive cell of metallized polyester film with internal fuses coated with flame retardant epoxy resin.

Climatic Category

40/85/21

Maximum Operating Temperature

85°C

Capacitance Value

1.0µF-4.6µF

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} 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 for series code 77/83.

≤ 15% of initial value for series code 82.

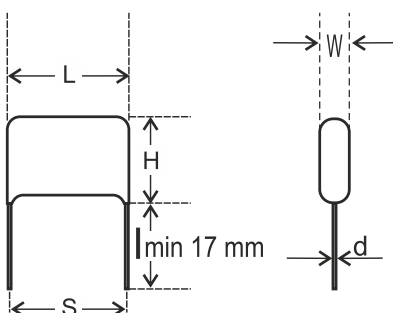
Increase of Tan δ: ≤ 0.004 of initial value at 1 kHz.

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

**Ordering code and packing units: Metallized Polyester Film Capacitors Economic Type
MPET-EC-Ultima • Series Code 77, 83**

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	0.8	27.5	77/83 105 + 02 ^A	250
	1.5	9.5	16.5	27.5	0.8	22.5	77/83 155 + 02 ^A	250
	2.2	11.5	19.5	27.5	0.8	22.5	77/83 225 + 02 ^A	250
	2.4	10.0	17.0	31.0	0.8	27.5	77/83 245 + 02 ^A	250
	3.3	13.5	21.5	27.5	0.8	22.5	77/83 335 + 02 ^A	250
	4.0	12.0	21.0	31.0	0.8	27.5	77/83 405 + 02 ^A	250
	4.3	13.0	23.0	31.0	0.8	27.5	77/83 435 + 02 ^A	250
	4.6	14.0	23.0	31.0	0.8	27.5	77/83 465 + 02 ^A	250

Note: Series code 77 indicates capacitor in brown colour and series code 83 indicates orange colour.



Metallized Polyester Film Capacitors

Economic Type Fan Regulator Capacitors (MPET-EC-Ultima) • Series Code 77, 82, 83



Ordering code and packing units: Metallized Polyester Film Capacitors Economic Type
MPET-EC-Ultima • Series Code 82

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	12.5	31.0	0.8	27.5	82 105 + 02 *^	250
	1.5	8.0	14.5	31.0	0.8	27.5	82 155 + 02 *^	250
	2.2	7.5	17.7	31.0	0.8	27.5	82 225 + 02 *^	250
	2.5	10.5	18.0	31.0	0.8	27.5	82 255 + 02 *^	250
	3.3	10.5	17.5	31.0	0.8	27.5	82 335 + 02 *^	250
	4.0	11.0	20.0	31.0	0.8	27.5	82 405 + 02 *^	250
	4.3	11.5	21.0	31.0	0.8	27.5	82 435 + 02 *^	250
	4.6	12.0	21.5	31.0	0.8	27.5	82 465 + 02 *^	250

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