

# Metallized Polypropylene Film Capacitors

Series Code  
**84**

## Switch Type Fan Regulator Capacitors (MPP-SW-Ultima)

**Main Application**

Mainly used in switch type fan regulators.

**Construction**

Low inductive cell of metallized polypropylene 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**

0.001 (max) at 1 kHz.

**Insulation Resistance**

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

(or) time constant  $T = C_R \times R_{IS} > 7500$  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:  $\leq 0.004$  of initial value at 1 kHz.

Insulation Resistance:  $\geq 50\%$  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:  $\leq 0.004$  of initial value at 1 kHz.

Insulation Resistance:  $\geq 50\%$  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**

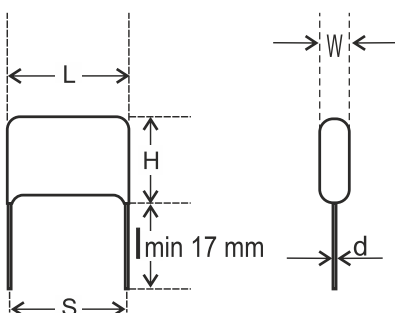
$\Delta C/C: \leq 10\%$  of initial value.

Increase of Tan δ:  $\leq 0.004$  of initial value at 1 kHz.

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

**Ordering code and packing units: Metallized Polypropylene Film Capacitors  
Switch Type Fan Regulator Capacitors • MPP-SW-Ultima • Series Code 84**

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	7.5	13.5	31.0	0.8	27.5	84 105 + 02 ^A	250
	1.5	8.0	16.0	31.0	0.8	27.5	84 155 + 02 ^A	250
	2.2	10.5	17.0	31.0	0.8	27.5	84 225 + 02 ^A	250
	2.4	10.0	17.5	31.0	0.8	27.5	84 245 + 02 ^A	250
	3.3	12.0	21.0	31.0	0.8	27.5	84 335 + 02 ^A	250
	4.0	14.0	23.0	31.0	0.8	27.5	84 405 + 02 ^A	250
	4.3	13.0	21.5	31.0	0.8	27.5	84 435 + 02 ^A	250
	4.6	15.0	24.0	31.0	0.8	27.5	84 465 + 02 ^A	250



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