Metallized Polyester Film Capacitors

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 \( T = C_r \times R_{is} \)
(at 25°C, relative humidity ≤70%) > 2500 s

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 Polyester Film Capacitors Switch Type Fan Regulator Capacitors
MPET-SW • Series Code 46, 98, 102

<table>
<thead>
<tr>
<th>Rated Voltage</th>
<th>Rated Cap. (µF)</th>
<th>W (max)</th>
<th>H (max)</th>
<th>L (max)</th>
<th>d (±0.05)</th>
<th>S (±1.0)</th>
<th>Ordering Code</th>
<th>Packing Units</th>
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<tbody>
<tr>
<td>250VAC</td>
<td>0.76</td>
<td>7.0</td>
<td>12.0</td>
<td>31</td>
<td>0.8</td>
<td>27.5</td>
<td>46/98/102 764 + 02 **</td>
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<tr>
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<td>1.00</td>
<td>6.5</td>
<td>15.0</td>
<td>31</td>
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<tr>
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<td>21.5</td>
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</tbody>
</table>

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