**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) $R_{in}$ measured at 100VDC for 1 minute.
(or) time constant $T = C_{in} \times R_{in} > 2500$ 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**
   $ΔC/C$: ≤ 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**
   $ΔC/C$: ≤ 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 380 VAC at ambient temperature for 2 hours.

   **After the Test**
   $ΔC/C$: ≤ 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**

<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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<td>1.0</td>
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<td>15.5</td>
<td>31</td>
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<td>27.5</td>
<td>57/81 105 + 02 **</td>
<td>250</td>
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<td>7.5</td>
<td>16.5</td>
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</table>

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

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

Metallized Polyester Film Capacitors • Economic Type Fan Regulator Capacitors • MPET-EC • Series Code 57, 81 • 20181202 • 1.0