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.

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 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.

Insulation Resistance
(Minimum insulation resistance) $R_\text{m}$ measured at 100VDC for 1 minute.
(or) time constant $T = C_m \times R_\text{m}$ > 2500 s
(at 25°C, relative humidity ≤70%)

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

<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>15.5</td>
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<td>16.5</td>
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<td>77/83 245 + 02 *^ 250</td>
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<td>27.5</td>
<td>77/83 465 + 02 *^ 250</td>
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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

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<th>d (±0.05)</th>
<th>S (±1.0)</th>
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Note: For more details please contact info@dekielectronics.com