**Permissible Conditions**

**Permissible Voltage**
- These capacitors are designed only for DC voltage, so should not be used for AC line.
- Use the peak voltage \( (V_{op}) \) within the rated voltage.
- Use the peak to peak voltage \( (V_{pp}) \) within \( 0.2 \times V_R \).

\[
V_R \geq V_{op} \quad \text{and} \quad \frac{V_{pp}}{2} \leq 0.2 \times V_R
\]

**DC Voltage, Peak current and RMS current derating**
Derating of voltage \( (V_{op}) \), RMS current \( (A_{rms}) \), and peak current \( (A_{op}) \) according to the following diagram when the temperature of the capacitor surface exceeds 70 °C.

*Permissible self heating temperature rise*
Permissible self heating temperature rise is within following diagram when the temperature of the capacitor surface exceeds 70 °C.

*Total cycles applied peak current*
Total cycles applied peak current \( (A_{op}) \) (including pulse current) are within following diagram.
Plastic Film Capacitors

- **Type EZPE**  Rated voltage : 500 VDC at 70 °C  (450VDC at 85 °C)

- **Temperature Characteristics**

  - Capacitance (typical curve)
  - Dissipation factor (typical curve)
  - Insulation resistance (typical curve)

- **Frequency Characteristics**

  - Impedance vs. Frequency (typical curve)

- **Lifetime expectancy**

* Life time : Reach \( \Delta C/C = -10 \% \), Judgement of Panasonic
* 105°C : Not guarantee voltage
Plastic Film Capacitors

Characteristics <Reference>

- Type EZPE  Rated voltage: 800 VDC at 70 °C  (700VDC at 85 °C)

Temperature Characteristics

![Temperature Characteristics Graph]

Frequency Characteristics

![Frequency Characteristics Graph]

Lifetime expectancy

![Lifetime expectancy Graph]

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

* Life time : Reach $\Delta C/C = -10\%$, Judgement of Panasonic
* 105°C : Not guarantee voltage
Plastic Film Capacitors

Characteristics (Reference)

- **Type EZPE**
  - Rated voltage: 1100 VDC at 70 °C (920VDC at 85 °C)

### Temperature Characteristics

- **Capacitance (typical curve)**
  - At 1kHz
  - At 500VDC

- **Dissipation factor (typical curve)**
  - At 1kHz

- **Insulation resistance (typical curve)**
  - At 500VDC

- **Impedance vs. Frequency (typical curve)**

- **Lifetime expectancy**
  - Lifetime expectancy (Reference)
  - Permissible voltage (Vo-p)
  - Lifetime expectancy (Reference)

*Life time: Reach ΔC/C = -10%, Judgement of Panasonic*

*105°C: Not guarantee voltage*

---

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.
Plastic Film Capacitors

- Characteristics

  - Type EZPE
  - Rated voltage: 1300 VDC at 70 °C (1100 VDC at 85 °C)

- Temperature Characteristics

- Frequency Characteristics

- Lifetime expectancy

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.