

Attracting Tomorrow



Guidance on allowable voltage and allowable current

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Ceramic Capacitors BG
Product Technology Dept.
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September 2024

The allowable voltage and current graphs displayed in the detailed information within the TDK Product Center are created based on the following conditions.

- The applied waveform is a sine wave of a single frequency.
- The evaluation environment for the self-heating temperature is at room temperature under natural convection.
- The board on which the MLCC is mounted is assumed to have sufficient heat dissipation for the applied current and to reach thermal equilibrium under natural convection.
- Under the above conditions, the allowable voltage and current are defined as those at which the self-heating temperature of the MLCC remains below 20°C.
- This data is for reference only and does not guarantee reliability.

