



Class 1 ceramic capacitors

Class 1 ceramic capacitors are accurate, temperature-compensating capacitors. They offer the most stable voltage, temperature, and to some extent, frequency. They have the lowest losses and therefore are especially suited for resonant circuit applications where stability is essential or where a precisely defined temperature coefficient is required, for example in compensating temperature effects for a circuit.

Ceramic capacitors are divided into two application classes:

- Class 1 ceramic capacitors offer high stability and low losses for resonant circuit applications.

**Definition regarding to
IEC/EN 60384-1
and IEC/EN 60384-8/9/21/22**

Class 1 ceramic capacitors offer high stability and low losses for resonant circuit applications.

**Definition regarding to
EIA RS-198**

Class I (or written class 1) ceramic capacitors offer high stability and low losses for resonant circuit application

Class 1 capacitors have a temperature coefficient that is typically fairly linear with temperature. These capacitors have very low electrical losses with a dissipation factor of approximately 0.15%. They undergo no significant aging processes and the capacitance value is nearly independent of the applied voltage.