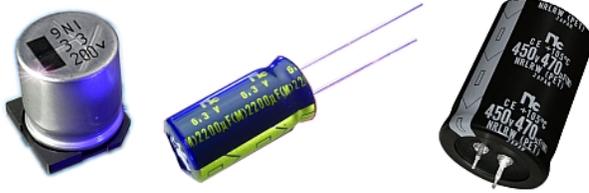




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## Capacitance Tolerance

Products: Aluminum Electrolytic Capacitors; liquid electrolyte construction

- **Capacitance Tolerance:**
  - Standard capacitance tolerance for Aluminum Electrolytic Capacitors is  $\pm 20\%$  (M). Under special order  $\pm 10\%$  (K) tolerance products may be available.
  - Capacitance tolerance limits apply to material prior to exposure to PCB assembly.
  - Please account for capacitance value decrease below tolerance minimum limit, after exposure to reflow soldering process (such as SAC alloy reflow) and also under operation (or storage) at elevated temperature and time.
- **Non-Endorsed Applications:**
  - Life Support & Safety Controls
  - Timing Circuit Applications\*
  - Aerospace & Aviation
  - Environments containing ozone, ultraviolet rays, nuclear radiation, toxic gasses or salt mist, splashing of water or oil

\*- Aluminum electrolytic capacitors are typically not suited for use in timing circuit applications, due to high VDC leakage current (LC) common to electrolytic capacitors, normal decrease in capacitance value over time, and variations in LC and capacitance within each manufacturing batch. Typically these characteristics will result in circuit timing variation from unit to unit and over the service life of the equipment. Please refer to "SELECTION AND APPLICATION OF CAPACITORS"(1982), by John D. Moynihan (Components Technology Institute); Pages 96 & 100 indicate the limitations of using aluminum electrolytic capacitors in timing circuit applications.

- RE: NIC GUIDELINE: <http://www.niccomp.com/help/techinfo/AlumApplInfoCautions.pdf>