



Failure Mode and Failure Rate

Operation Using Solid Aluminum Electrolytic Capacitors

Explanatory Notes

1. The failure modes for solid aluminum electrolytic capacitors, as well as solid tantalum capacitors, are usually limited to short circuit or random failures because of the solid electrolyte design.

These types of failures for solid capacitors are directly related to application conditions such as excessive voltage and operating temperature. The failure rate can be reduced with proper circuit design and installation or by derating the voltage or temperature.

Precaution

1. The failure modes of solid aluminum electrolytic capacitors are usually short circuits or random failure.

These failure modes can be avoided with proper circuit design and installation.