



# HITANO ENTERPRISE CORPORATION

7F-7 No. 3 Wu Chuan 1<sup>st</sup> Road, New Taipei Industrial Park, New Taipei City, TAIWAN

TEL : 886-2-2299-1331 FAX : 886-2298-2446

## Application Notes.

### Subject : Storage of Aluminium Electrolytic Capacitors

We recommend the following conditions for storage :

1. It is recommended to keep capacitors between the ambient temperatures of 5°C to 35°C and a relative humidity of 75% or below.
2. Confirm that the environment does not have any of the following conditions :
  - (1) Damp conditions such as water, saltwater spray, or oil spray or fumes. High humidity or humidity condensation situations.
  - (2) In an atmosphere filled with toxic gasses (such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonia, etc.)
  - (3) Being exposed to direct sunlight, ozone, ultraviolet ray, or radiation.
  - (4) Being exposed to acidic or alkaline solutions.
3. Keep capacitors in the original package.
4. Storage life & Re-aging :

When Aluminium Electrolytic Capacitors are stored without applied voltage, their L.C. (Leakage Current) characteristic increases over time. For long-term stored products, the following treatments must be performed before use :

- (1) For Low Voltage Aluminium Electrolytic Capacitors (i.e., Working Voltage W.V.  $\leq$  120V) : After one year of storage, a test must be performed before use. If the L.C. value exceeds the specified value, it is recommended not to use them, as lifespan and quality cannot be 100% guaranteed.
- (2) For Medium/High Voltage Aluminium Electrolytic Capacitors (i.e., Working Voltage W.V.  $\geq$  160V) :
  - (A) If stored for more than 6 months, a test must be performed before use to ensure lifespan and quality.
  - (B) If stored for 6-24 months and the L.C. value is between 25% and 40% of the specified value, it is recommended to recharge (re-agent) before use. If the L.C. value exceeds 40% of the specified value, do not use.
- (3) Re-aging condition : It is recommended to apply D.C. working voltage to the capacitor for 2 hours through 1K $\Omega$  of protective series resistor.

For and on behalf of  
HITANO ENTERPRISE CORP.

  
Authorized Signature

Approved by : \_\_\_\_\_

Prepared by : Randy Yu