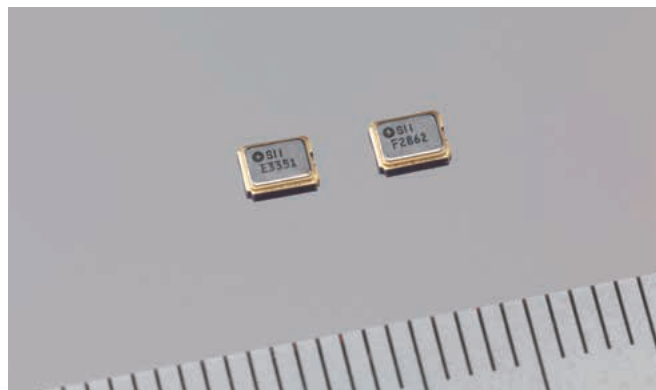


Reflowable

CPH3225A / CPM3225A

The thin (less than 1 mm) and small (3.2 mm × 2.5 mm) chip-type electric double layer capacitors have unique ceramic packaging with superior air-tightness. It assures superior leakage and humidity resistance.



FEATURES

- Excellent leakage resistance and humidity resistance
- Long life span, high reliability
Superior air-tight ceramic package reduces storage deterioration in high temperature / high humidity environments, assuring long term reliability.
- Small leak current
CP capacitor allows sufficient charging with several micro watts of energy harvesting power source.
- Long cycle Life:
At least 10,000 times of charge/discharge.
- Simple Charging circuit (constant voltage charging)
- RoHS Compliant

3.3V type

Type	Maximum Use Voltage (V)	Capacitance (mF)	Internal Impedance (ESR) * (Ω)	Size (LxWxH) (mm)	Operating Temperature Range	Weight (g)
CPH3225A	3.3	11.0	160	3.2×2.5×0.9	−20°C to +60°C	0.024

2.6V type

Type	Maximum Use Voltage (V)	Capacitance (mF)	Internal Impedance (ESR) * (Ω)	Size (LxWxH) (mm)	Operating Temperature Range	Weight (g)
CPM3225A	2.6	11.5	80	3.2×2.5×0.9	−30°C to +70°C	0.024

*. Value measured using AC (Alternating Current) method at the discharged state.

CAUTION

1. Prohibition ripple charging

A ripple (high frequency fluctuation of voltage) in the charge voltage extremely lowers the capacitor performance.
Be sure to charge capacitors with a stable voltage.

2. Charge voltage

The age deterioration of the capacitor depends on the charge voltage.
The age deterioration is accelerated as charge voltage goes higher.

3. Usage environment

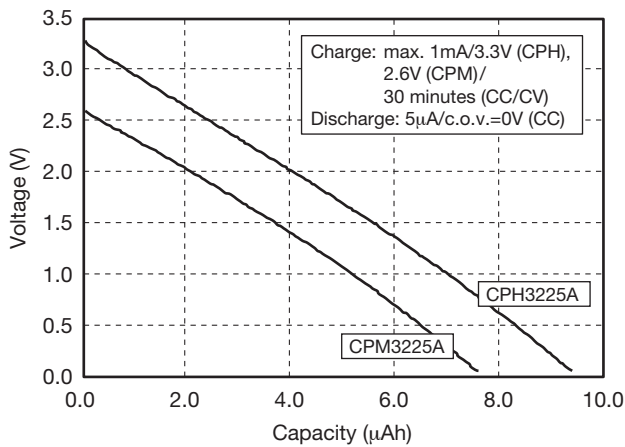
Aging degradation of the capacitor varies depending on the usage environment (temperature and humidity).
Contact us for further details.

APPLICATIONS

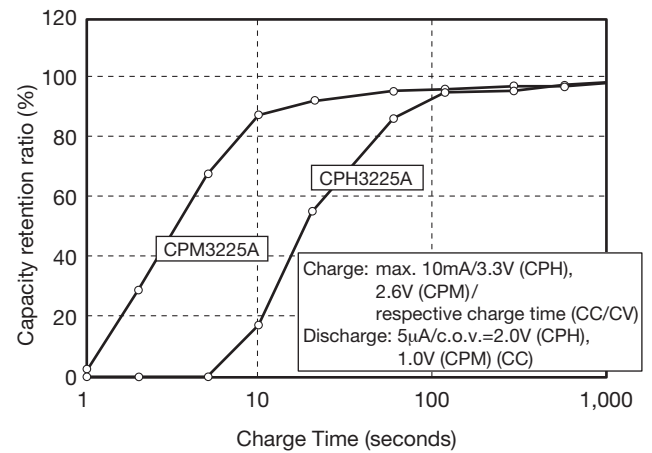
- Power backup for Real Time Clock or memory
- Power assist for main battery
- Electric storage device for energy harvesting
- Peak load leveling of primary battery
E.g. Handy terminals, Payment terminals, Wireless sensor network devices, NFC-enabled mobile devices, Battery powered medical devices, etc.

CHARACTERISTICS

Discharge Characteristics

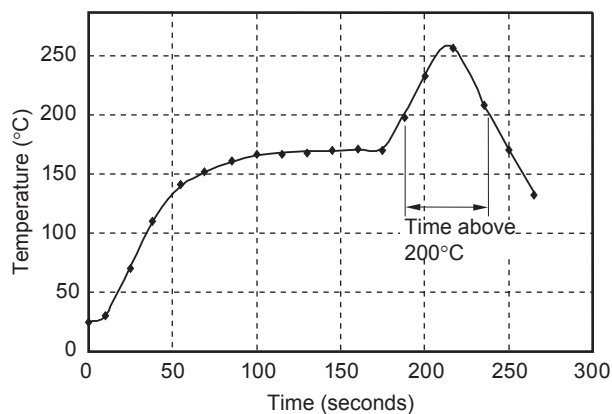


Charge Characteristics



REFLOW SOLDERING CONDITIONS

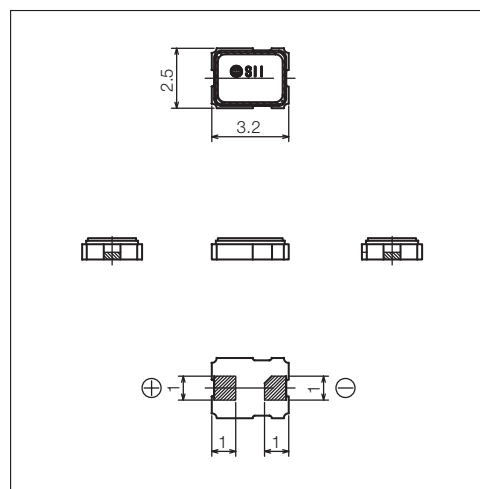
Reflow Profile Example



The times of repeated reflow soldering must be two times or less.
The Temperature must be measured at top of the cell.

DIMENSIONS

CPH3225A / CPM3225A



- Units: mm