CAUTION FOR PROPER USE OF "PC-CON"

Please note that operation installation environments follow the specified condition detailed in specification sheets.
Design and Specification each subject to change without notice.

1.PROHIBITED CIRCUITS

Do not use the "PC-CON" in the following circuits.
(1)Coupling circuits
(2)Time-constants circuits
(3)The leakage current greatly affects circuit operations
(4)2 or more capacitors connected serially circuit.

2.POLARITY

"PC-CON" has polarity, so be sure to verify the marking of capacitor before use.
If reverse voltage is applied to the capacitor, it may cause failures which are increased leakage current or short-circuit.

3.OPERATING VOLTAGE

Over voltage exceeding the rated voltage should not be applied. It may caused a short-circuit.

4.OPERATING TEMPERATURE

Use capacitors within the specified temperature range.
If used outside the specified temperature range, then the electrical characteristics may deteriorate significantly, leading to failure.
The temperature referred to here includes the ambient temperature including heat produced by heat generating devices (power transistors, resistors, etc.), self heating due to ripple current.

5.RIPPLE CURRENT

Observe the allowable ripple current.
When excessive ripple current is applied, it may result in shorter life due to the internal heat increase.

6.SOLDERING

Soldering conditions (temperature, time, etc.) described in the specifications.
If used the conditions exceeding the range of specified, there is a possibility of the intensive increase of leakage current, and the capacitance reduction.

7.LEAKAGE CURRENT

The leakage current become large by heat pressure from soldering and mechanical stress from transportation.
In such a case, leakage current will gradually decrease by applying within the rated voltage at a within category temperature range.

8.OPERATING ENVIRONMENT

Do not use the "PC-CON" in the following environments.
(1)Places where water, salt water or oil can directly fall on it, and places where condensation may form.
(2)Places filled with noxious gas (hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonia, etc.).
(3)Places susceptible to ozone, ultraviolet rays and radiation.

9.FAILURE MODE

The main failure mode of "PC-CON" is open-circuit affected by temperature, and the other failure mode is short-circuit by an over voltage and/or reverse voltage.
The time until failure occurs can be extended by using "PC-CON" with reduced ambient temperature, ripple current and applied voltage.

10.STORAGE

Store the "PC-CON" in a location that is not subject to direct sunlight and that has temperature of 5℃ to 30℃ and a relative humidity less than 60% generally.
It is preferable to store for no more than 1 year under the above condition.
After openning package, it should be used within 7 days.

11.DISPOSAL

Dispose of "PC-CON" as industrial waste because they consist of various metals and resin.

12.PW BOARD CLEANING

"PC-CON" can be immersed or ultrasonically cleaned using suitable cleaning solvents for up to 5 minutes at room temperature.
The board should be thoroughly rinsed and dried.
Recommended cleaning solvent include Pine Alpha ST-100S, Clean-thru 750H, Technocare FRW-17,EC-7R

●The use of ozone depleting cleaning agents are not recommended in the interest of protecting the environment. Please consult us when using cleaning solvents other than those above listed.

Cleaning Solvents	Cleaning Condition
Pine Alpha ST-100S Clean-thru 750H Technocare FRW-17 EC-7R	Is less than 5 minutes by dipping, steam, ultrasonic cleaning and these combinations.