

## “PC-CON”使用注意事项

在使用“PC-CON”时，请确认好使用环境以及安装环境在规格书额定性能规定的范围之内。

在没有预告的情况下产品式样有可能变更。

使用前请申请我公司的《产品式样书》，请参照此书使用产品。

### 1.关于禁止使用的电路

“PC-CON”不可以使用在以下的电路。

- (1) 耦合电路
- (2) 定时电路
- (3) 漏电流影响大的电路
- (4) 2个以上串联使用电路

### 2.关于极性

“PC-CON”需区分极性使用，使用时请确认极性标识。

如在使用时弄错极性，会导致漏电流增加、短路等故障的发生。

### 3.关于使用电压

使用“PC-CON”时，请不要施加超过额定值的电压。施加过电压会导致短路的发生。

### 4.关于工作温度

请在规格书规定的工作温度范围内使用。在超过规格书规定的温度范围以外使用时，会造成电容器性能劣化、发生故障等。

关于工作温度，也请注意配套机器内的发热体(如三级管、电阻等)所散发的热量以及由于纹波电流产生的电容器自身发热。

### 5.关于纹波电流

请不要让超过允许纹波电流的电流通过电容器。

过大的纹波电流通过时，会因其内部发热而会导致寿命变短。

### 6.关于焊锡焊接

焊接条件(回流温度、时间)不可超过规格书的规定范围。

超过规定范围的焊接条件，会对其电特性及寿命带来不良影响。

## 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.关于漏电流

焊接之后，漏电流会稍有增加。在最高工作温度以下对“PC-CON”施加电压之后，漏电流就会逐渐减少。

### 8.关于使用环境

请不要在以下环境中使用“PC-CON”。

- (1) 直接溅水、盐水、油或处于结露状态的环境
- (2) 充满有害气体 (硫化氢、氯气、氨气等) 的环境
- (3) 有臭氧、紫外线及放射线照射的环境

### 9.关于故障模式

“PC-CON”的故障模式主要是因温度负荷所造成的开路故障模式，此外，因过电压、反向电压等原因造成的短路故障模式也偶有发生。

通过降低环境温度、纹波电流以及施加的电压，可以延长到达故障模式的时间。

### 10.关于保管

请避免日光的直接照射，在常温常湿下 (5~30°C、60%HR以下)，保管“PC-CON”。

未开封状态可于上述条件下保管一年。

### 11.关于废弃处理

“PC-CON”由各种金属及树脂类构成，请作为工业废弃物处理。

### 12.基板清洗

“PC-CON”在常温下，可以承受5分钟以内的电路板清洗。(也可以进行超声波清洗)。但是必须进行充分冲刷 (用蒸馏水冲刷3-5分钟) 和干燥。

<溶剂>

Pine Alpha ST-100S

Clean-thru 750H

Technocare FWR-17、EC-7R

●基于地球环境保护，请避免使用臭氧层破坏物质作为清洗剂。此外，若使用上述以外的清洗剂时，请务必联系我们。

### 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°C to 30°C and a relative humidity less than 60% generally.

It is preferable to store for no more than 1 year under the above condition.

### 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 FWR-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.

清洗剂 Cleaning Solvents	清洗条件 Cleaning Condition
Pine Alpha ST-100S Clean-thru 750H Technocare FWR-17 EC-7R	可以进行5分钟以内的清洗液浸渍、蒸汽、超声波或三种方法组合的清洗。  Is less than 5 minutes by dipping, steam, ultrasonic cleaning and these combinations.