## PRECAUTIONS

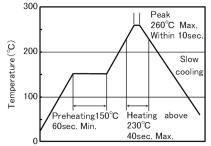
## 1. PCB Design **♦**Land pattern design Precautions Please do not arrange the surface and inside layer pattern near the antenna mounting area. ◆Land pattern design(Land pattern dimension examples and recommended antenna land pattern) TSA5N18D TSA5NA2K 0.5 Unit: mm matching circuit (1005 chip) Land for input termina Land for Matching cir (1005 chip) Land for GND terminal 50Ω Input Technical Land for Input terminal Considerations Land for NC terminal TSA6NA4L TSA3NA4L TSA5NA6L 0.9 2.1 0.9 2.1 0.9 6.8 1 1 ---Unit : mm GND 2 Unit: mm 50Ω input 50Ω input 50Ω input Land for input terminal Land for input terminal Land for GND terminal Land for input terminal Land for NC terminal Land for NC terminal Land for NC terminal



◆Conditions of Reflow soldering (for reference)

• Pb Free Reflow Profile





- Components should be preheated to within 100 to 130°C from soldering temperature.
- Assured to be reflow soldering for 2 times.

Note: The above profiles are the maximum allowable soldering condition, therefore these profiles are not always recommended.

This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

## 3. Storage Conditions

Precautions

- ◆Storage conditions
- 1. The Products must not be used in the following environments :
  - exposure to special gases such as (C12, NH3, SOx, NOx)
  - exposure to volatile gas or inflammable gas
  - exposure to a lot of dust
  - exposure to water or condensation
  - exposure to direct sunlight or freezing
- 2. The Products should be kept in the following conditions :
  - Temperature :  $-10\sim +40$ °C
  - Humidity: 15~85%RH max.
- 3. The products should be used within 6 months after delivery. In case of storage over 6 months, solderability shall be checked before actual usage.
- Please contact our offices for further details of specifications.
  - All of the standard values listed here are subject to change without notice due to technical improvements.
  - Therefore, please check the specifications carefully before use.

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