

## CT7030

## CURRENT SENSE TRANSFORMERS

## 电流互感器

## Features

- For use between 10 kHz to 1 MHz.  
适用于 10 kHz 至 1 MHz
- 500 Vrms, one minute isolation (hipot) winding to winding.  
500 Vrms, 一分钟绝缘 (高压) 绕组到绕组
- Inductance measured between secondary pins at 100 kHz, 0.1 Vrms, 0 Adc  
电感在 100 kHz、0.1 Vrms、0 Adc 条件下测量次级引脚
- Different turns ratios.  
不同的匝比提供选择。  
Terminating resistor value is based on 1 Volt output with 20 Amps flowing through the primary. Varying terminating resistance increases or decreases output Voltage/Ampere according to the following equation:  
$$R_T (\text{Ohms}) = V_{out} \times N_{sec} / I_{in}$$
  
端接电阻器的值基于 1 伏输出, 其中 20 安培流经原边。可变的终端电阻根据以下公式增加或减少输出电压/安培:  
$$R_T (\text{欧姆}) = V_{out} \times N_{sec} / I_{in}$$
- RoHS compatible.  
符合环保要求。
- Operating temperature : -40°C~+125°C.  
工作温度: -40°C~+125°C



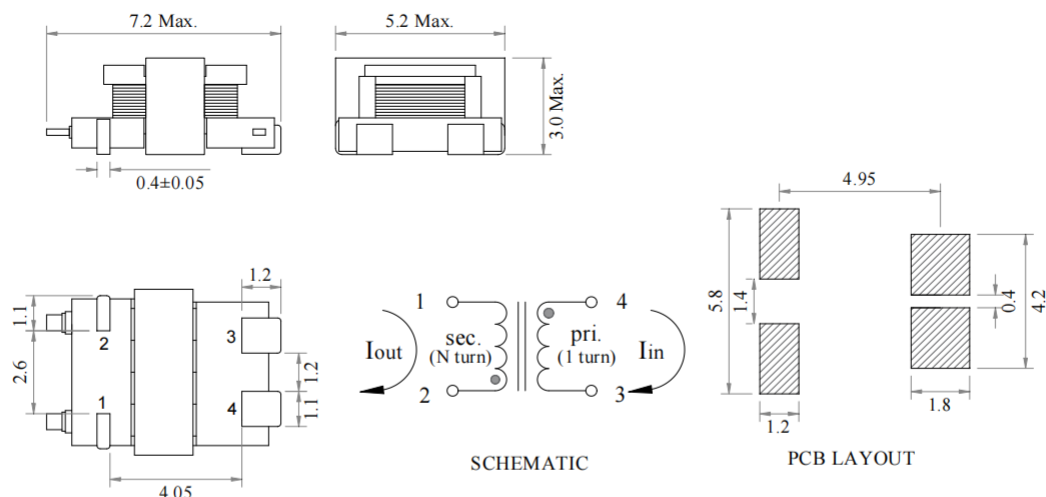
## Applications

- Switching power supplies. Feedback control. Overload sensing. Load drop/shut down detection  
适用于开关电源、反馈控制器、过载传感、负载降低/关闭检测等

## Electrical characteristics

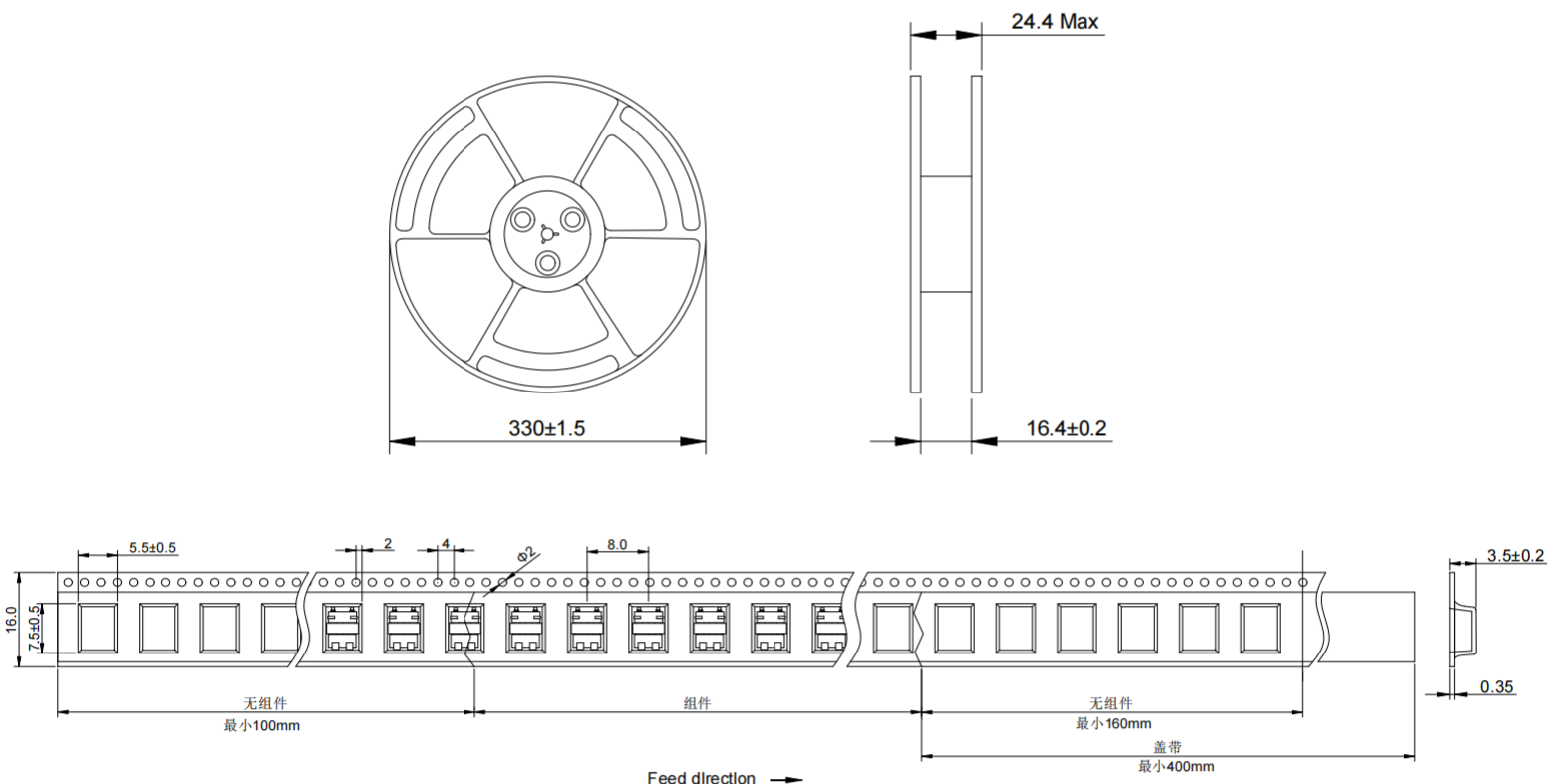
| Part number<br>料号 | Turn ratio<br>匝比<br>Pri:sec | Sec inductance<br>次级电感量<br>Min (mH) | DC Resistance<br>直流电阻<br>Max |        | Voltage-time<br>product<br>电压时间乘积<br>V.μS | Frequency<br>range<br>频率范围<br>KHz | Primary<br>Rated Current<br>初级额定电流<br>A max | Terminating<br>resistance R <sub>T</sub><br>终止电阻 |
|-------------------|-----------------------------|-------------------------------------|------------------------------|--------|-------------------------------------------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
|                   |                             |                                     | Pri(Ω)                       | Sec(Ω) |                                           |                                   |                                             |                                                  |
| CT7030-020        | 1:20                        | 0.053                               | 0.0015                       | 0.42   | 6.4                                       | 78->1000                          | 20                                          | 1.0                                              |
| CT7030-050        | 1:50                        | 0.333                               | 0.0015                       | 2.76   | 16                                        | 31->1000                          | 20                                          | 2.5                                              |
| CT7030-070        | 1:70                        | 0.652                               | 0.0015                       | 5.04   | 22.4                                      | 22->1000                          | 20                                          | 3.5                                              |
| CT7030-100        | 1:100                       | 1.330                               | 0.0015                       | 10.68  | 32                                        | 16->1000                          | 20                                          | 5.0                                              |
| CT7030-150        | 1:150                       | 2.993                               | 0.0015                       | 22.3   | 48                                        | 10->1000                          | 20                                          | 7.5                                              |

## Dimensions



## ■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]



Weight 重量: 0.155g/PCS

Packaging 包装数量: 2500 PCS/Reel