

# Specification for Approval

Customer:

Customer P/N:

EEC P/N:

SG24701N0

Spec No.:

Version No.:

V0.1

Description:

100/1000 BASE-T

| Customer Approval |  | EEC Approval |           |
|-------------------|--|--------------|-----------|
|                   |  |              |           |
| Inspected By:     |  | Issued By:   | Xingyu,He |
| Checked By:       |  | Checked By:  | Bob       |
| Approved By:      |  | Approved By: | Jerry     |
| Approved Date:    |  | Issued Date: | 2024/7/15 |

Please Return One Copy to Us After Approved,TKS! (承认后请回寄一份,谢谢)

- Remark:
- Before use, please confirm whether this product is suitable for your design, Scientific only ensure products meet this specification.
  - This specification data change must be confirmed by both parties,any individual modification is invalid.
  - If customer placed orders without signing back this specification, it is regarded as recognition.

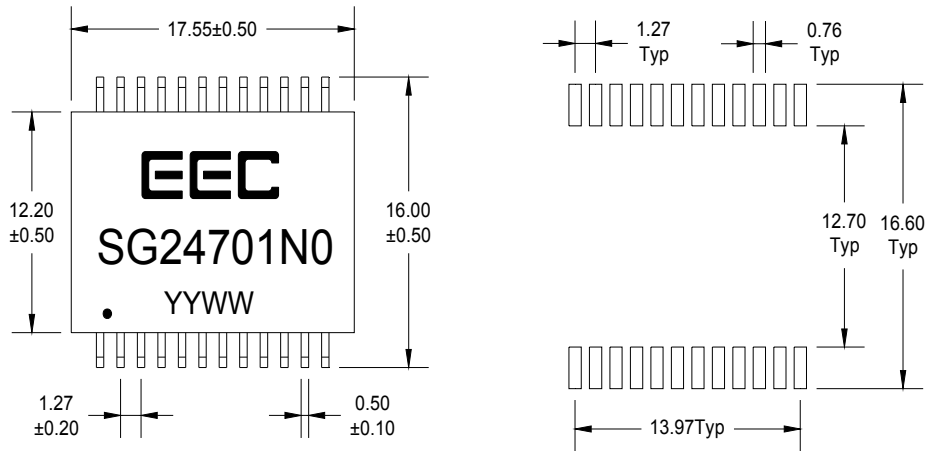


绵阳敦源电子科技有限公司  
Mianyang Dunyuan Electronics Technology Co.,Ltd  
地址：四川省绵阳市高新区综合保税区  
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

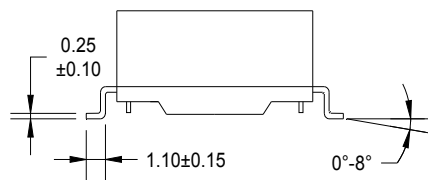
[illegible]

|                 |           |         |                   |
|-----------------|-----------|---------|-------------------|
| DESCRIPTION     | EEC P/N:  | SPEC NO | Version No.: V0.1 |
| 100/1000 BASE-T | SG24701N0 |         | PAGE: 1/4         |

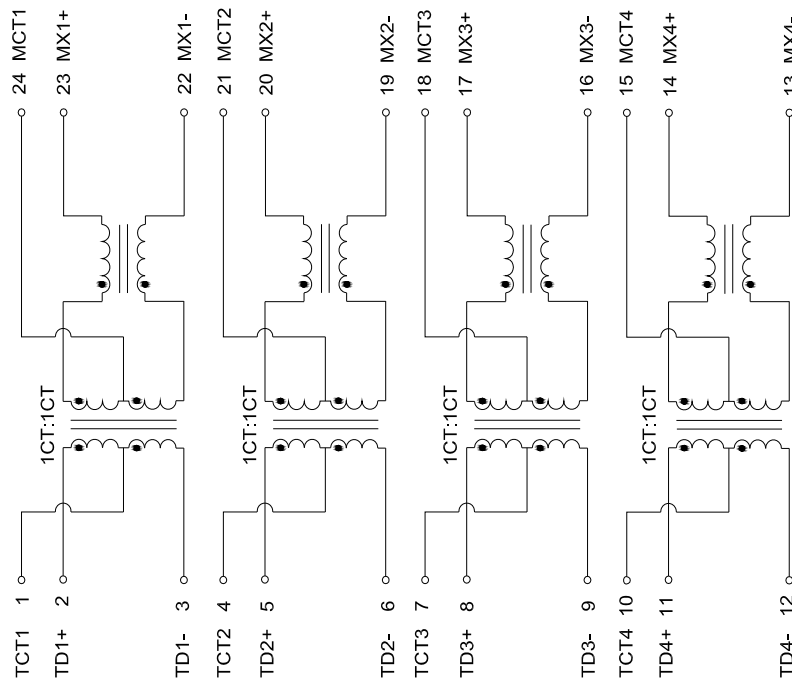
## A. MECHANICAL(unit:mm)



Suggested PAD Layout



## B. SCHEMATICS

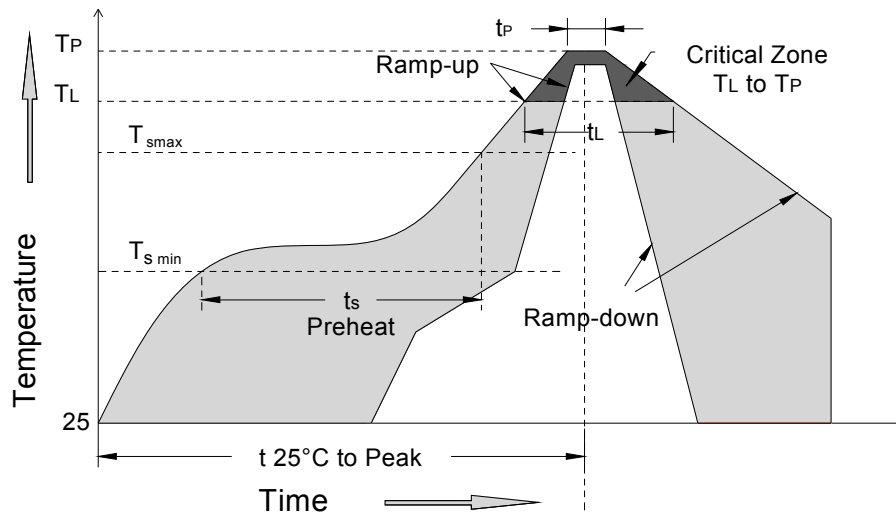


| DESCRIPTION     | EEC P/N:  | SPEC NO | Version No.: V0.1 |
|-----------------|-----------|---------|-------------------|
| 100/1000 BASE-T | SG24701N0 |         | PAGE: 2/4         |

**C. ELECTRICAL SPECIFICATIONS @25°C**

Unless Otherwise Specified, Testing is Performed at 25°C ± 5°C

1. OCL: 350uH Min @ 100 KHz, 0.1V 8mA DC BIAS
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: 1400mΩ Max
4. Turns Ratio: 1CT:1CT±5%
5. Insertion Loss: -1.1 dB Max @ 1-100 MHz
6. Return Loss: -18 dB Min @ 1-30 MHz
  - 14.4 dB Min @ 40 MHz
  - 13.1 dB Min @ 50 MHz
  - 12 dB Min @ 60-80 MHz
  - 10 dB Min @ 100 MHz
7. Cross Talk: -30 dB Min @ 1-100 MHz
8. Common Mode Rejection: -30 dB Min @ 1-100 MHz
9. Isolation Hipot: 1500VAC 1mA 60S
10. Operating temperature 0°C to +70°C
11. Storage temperature -40°C to +85°C

**D. RECOMMEND REFLOW SOLDERING CURVE**

MSL:

Grade: 1 level. Floor life: 0.5 year Condition: ≤30°C/60%RH.

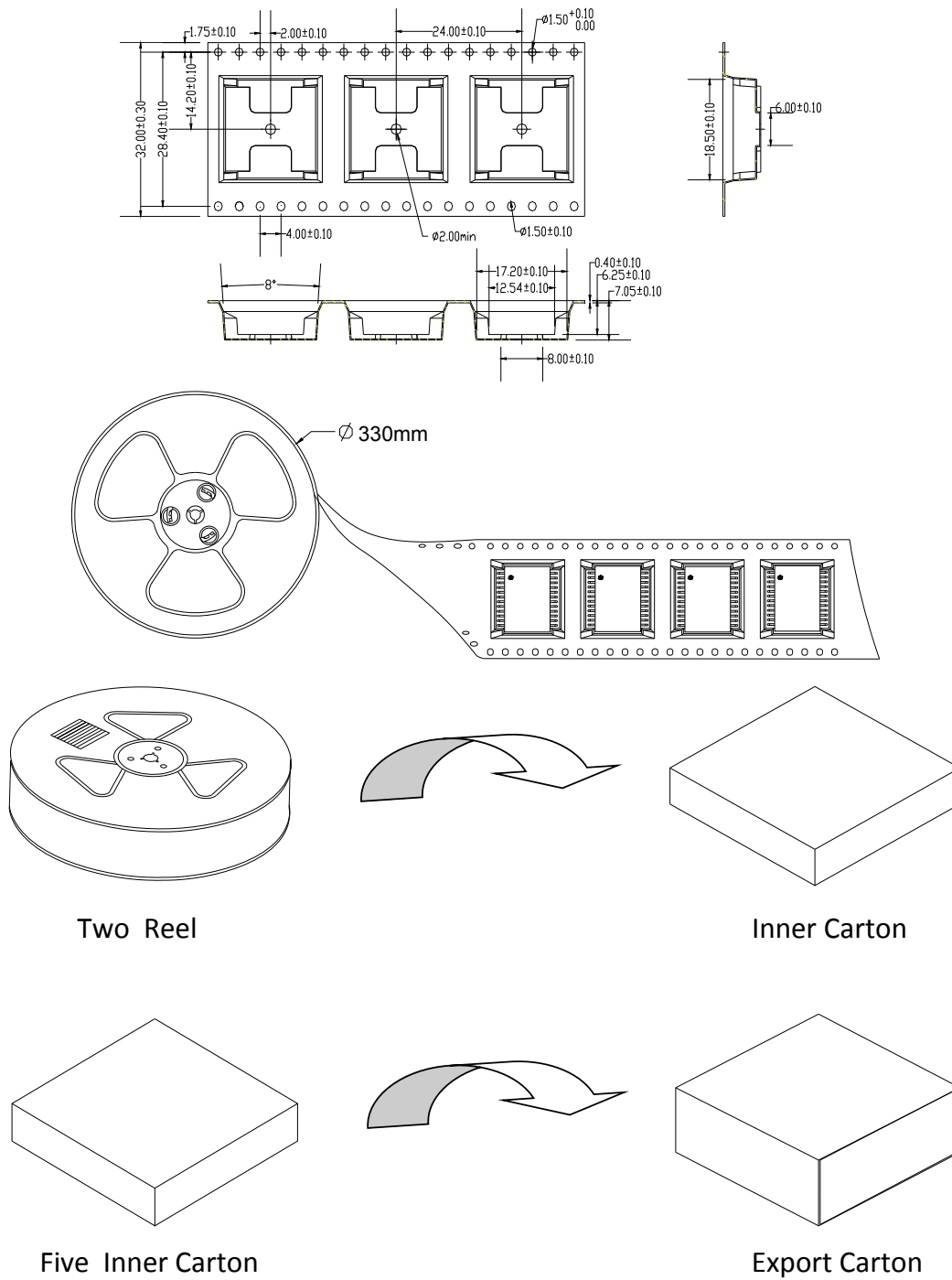
Ramp up rate=3°C/s max Ramp down rate=6°C/s max

TL=217°C tL=60s-150s Tp=250+/-3°C Time within 5°C of actual Peak Temperature (tp): 20~40s

Ts min=150°C Ts max=200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

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|-----------------|-----------|---------|-------------------|
| 100/1000 BASE-T | SG24701N0 |         | PAGE: 3/4         |

## E. PACKAGE INFORMATION



Package Quantity:

One Reel=350Pcs

One Inner Carton=350\*2=700Pcs

One Export Carton=700\*5=3500Pcs

| DESCRIPTION     | EEC P/N:  | SPEC NO | Version No.: V0.1 |
|-----------------|-----------|---------|-------------------|
| 100/1000 BASE-T | SG24701N0 |         | PAGE: 4/4         |