

Specification for Approval

Customer: _____

Customer P/N: _____

EEC P/N: SG24701A0

Spec No.: _____

Version No.: V0.1

Description: 100/1000 BASE-T

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Bob
Checked By:		Checked By:	/
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:
- 1. Before use, please confirm whether this product is suitable for your design, Scientific only ensure products meet this specification.
 - 2. This specification data change must be confirmed by both parties,any individual modification is invalid.
 - 3. 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

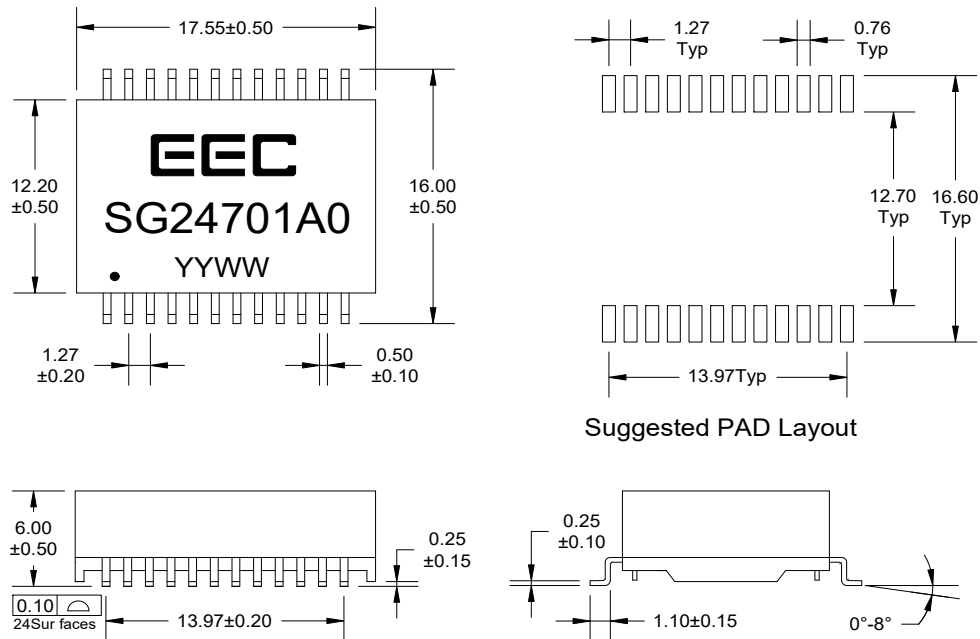
Specification for Approval

Revision History

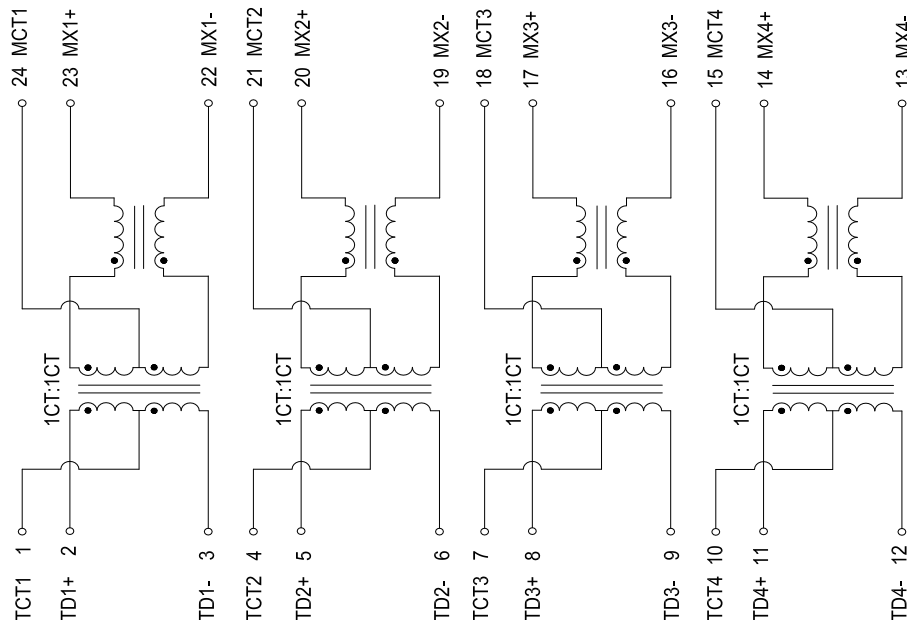
[illegible]

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG24701A0		PAGE: 1/4

A. MECHANICAL(unit:mm)



B. SCHEMATICS

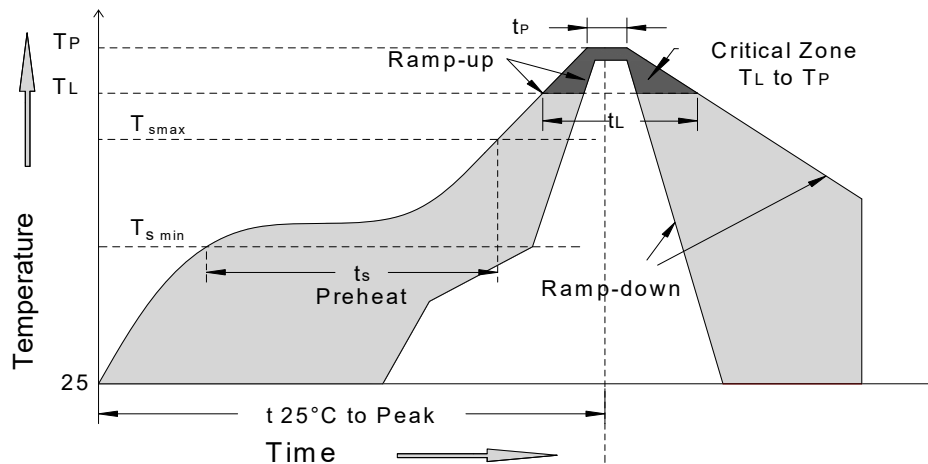


DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG24701A0		PAGE: 2/4

C. ELECTRICAL SPECIFICATIONS @25°C

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

1. OCL: 350uH Min @ 100 KHz, 0.1V with 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: 1500VDC 1mA 60S or 1650VAC 1mA 2s
10. Operating temperature -40°C to +125°C
- 11.Storage Temperature(With Package): +10°C to +40°C
- 12.Storage Temperature(Without Package, Just For Components): -40°C to +125°C
13. Meet AEC-Q200 Standard.
14. RoHS compliant.

D. RECOMMEND REFLOW SOLDERING CURVE

MSL:

Grade: 1 level. Floor life: 0.5 year Condition: $\leq 30^\circ C/60\%RH$.

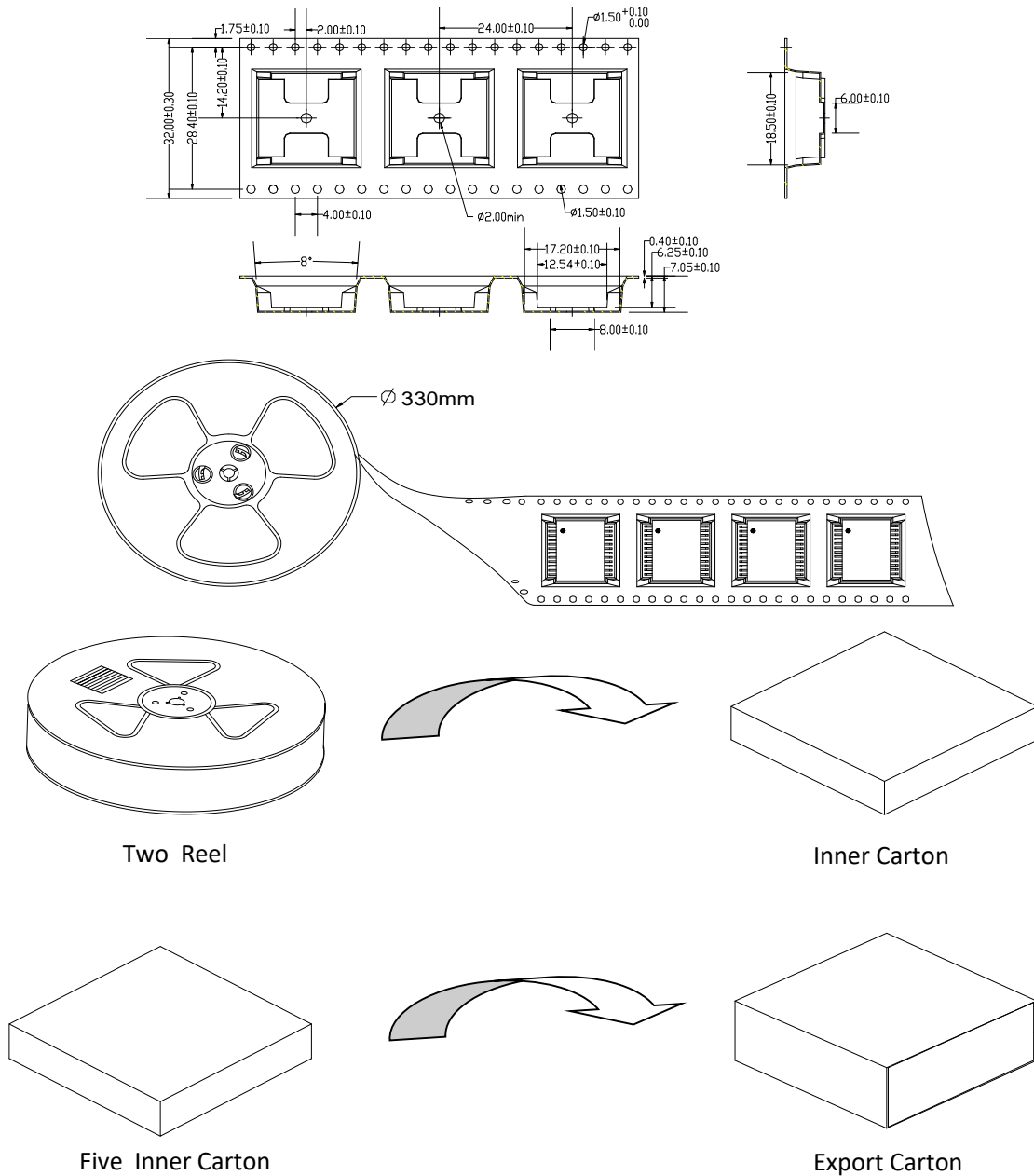
Ramp up rate=3°C/s max Ramp down rate=6°C/s max

$T_L=217^\circ C$ $t_L=60s-150s$ $T_p=250\pm 3^\circ C$ Time within 5°C of actual Peak Temperature (tp): 20~40s

$T_{s\ min}=150^\circ C$ $T_{s\ max}=200^\circ C$ $T_{s\ min\ to\ T_{s\ max}}$: 60s-180s, 25°C to peak Temperature: 8minutes max

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG24701A0		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	SG24701A0		PAGE: 4/4