

Specification for Approval

Customer:	
Customer P/N:	
EEC P/N:	SG50011P0
Spec No.:	
Version No.:	V0.1
Description:	100/1000 BASE-T
	Laser Marking

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Xingyu,He
Checked By:		Checked By:	/
Approved By:		Approved By:	Jerry
Approved Date:		Issued Date:	2024/8/16

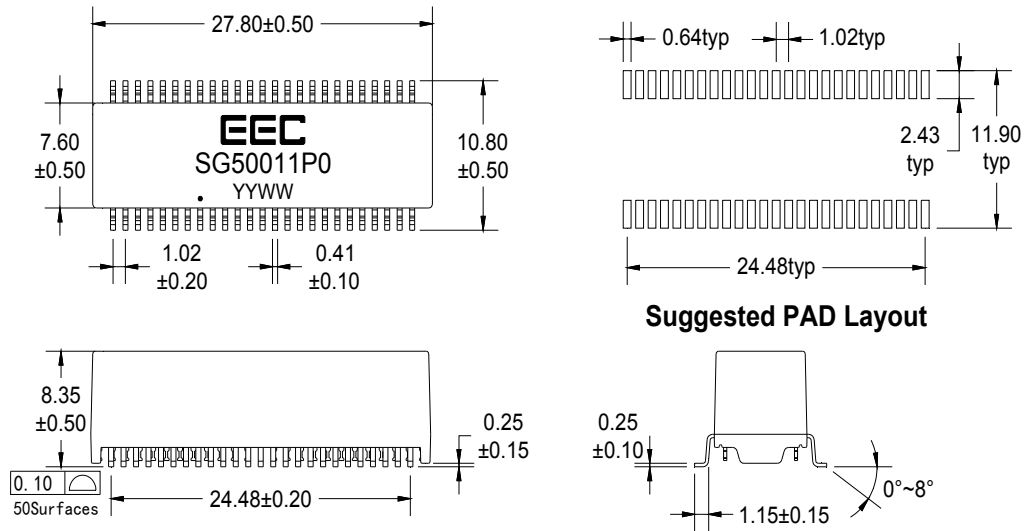
Please Return One Copy to Us After Approved,TKS! (承认后请回寄一份,谢谢)

- 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.

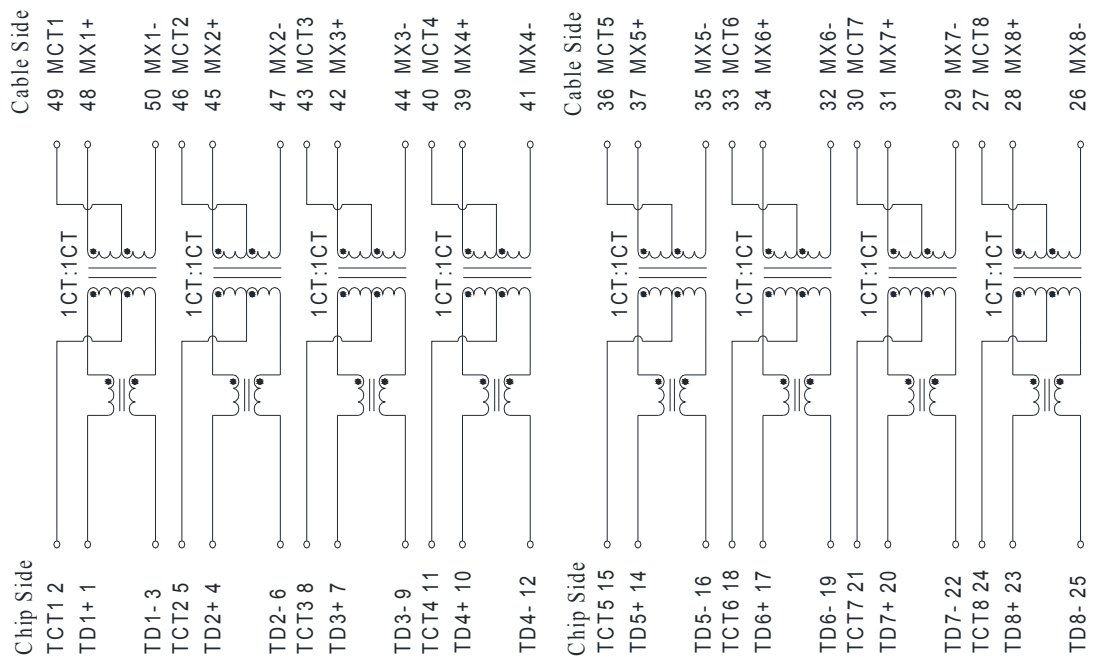


绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址： 四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

A. MECHANICAL(unit:mm)



B. SCHEMATICS

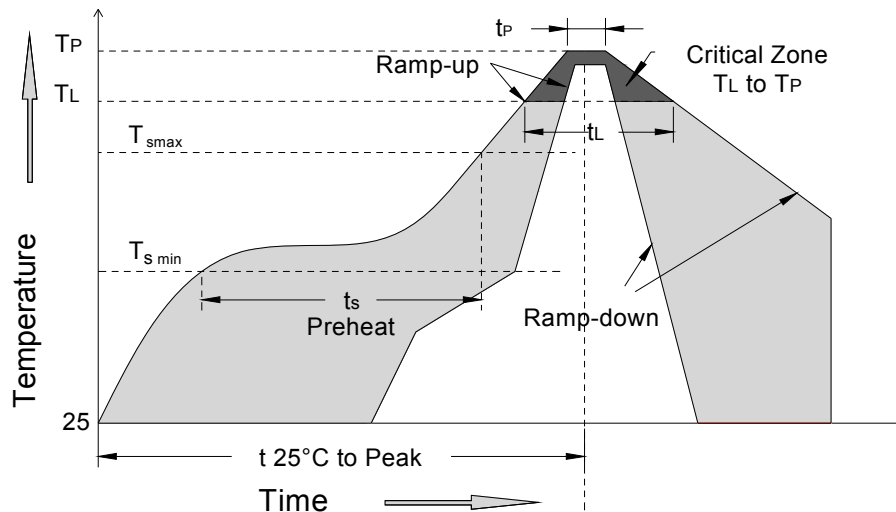


DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG50011P0		PAGE: 2/4

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 14mA DC BIAS
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: 1400mΩ Max
4. Turns Ratio: 1CT:1CT±5%
5. Insertion Loss: -1.2 dB Max @ 0.5-1 MHz
-0.2-0.002*f^{1.4} dB Max @ 1-125 MHz
6. Return Loss: -16 dB Min @ 1-40 MHz
-10+20*log(f/80) dB Min @ 40.1-100 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(Included The Temperature Rise)
11. Storage temperature -40°C to +85°C
12. 720mA Current Capability--It is suitable for IEEE 802.3at

D. RECOMMEND REFLOW SOLDERING CURVE

MSL:

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

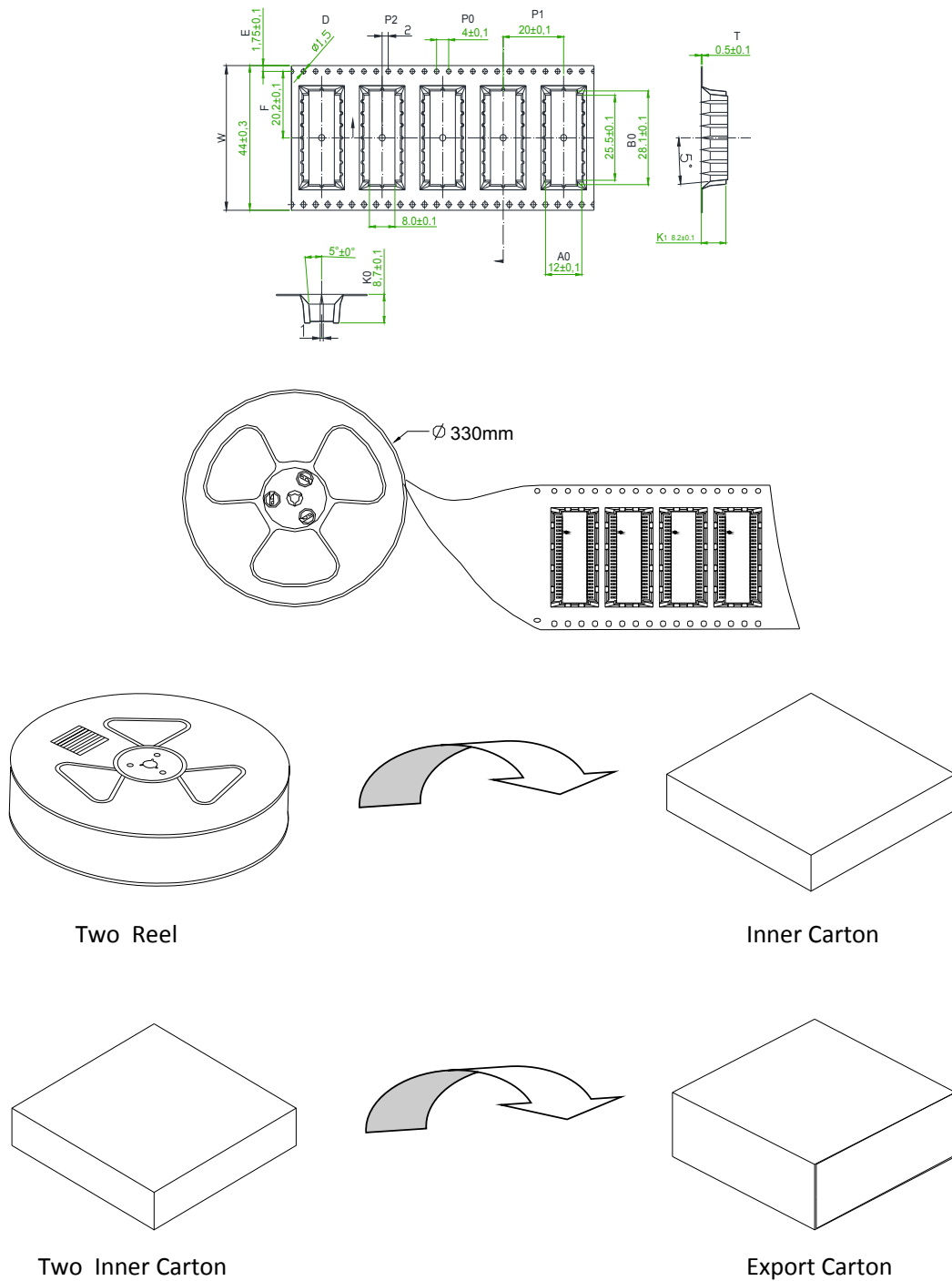
Ramp up rate = 3°C/s max Ramp down rate = 6°C/s max

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

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

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG50011P0		PAGE: 3/4

E. PACKAGE INFORMATION



Package Quantity:

One Reel=350Pcs

One Inner Carton=350*2=700Pcs

One Export Carton=700*2=1400Pcs

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
100/1000 BASE-T	SG50011P0		PAGE: 4/4