

Specification for Approval

Customer:	
Customer P/N:	
EEC P/N:	SM24002N0
Spec No.:	
Version No.:	V0.1
Description:	10G BASE-T
	Laser Marking

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Yangjun, Zou
Checked By:		Checked By:	Bob
Approved By:		Approved By:	Jerry
Approved Date:		Issued Date:	2024/7/17

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, Scientic 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.

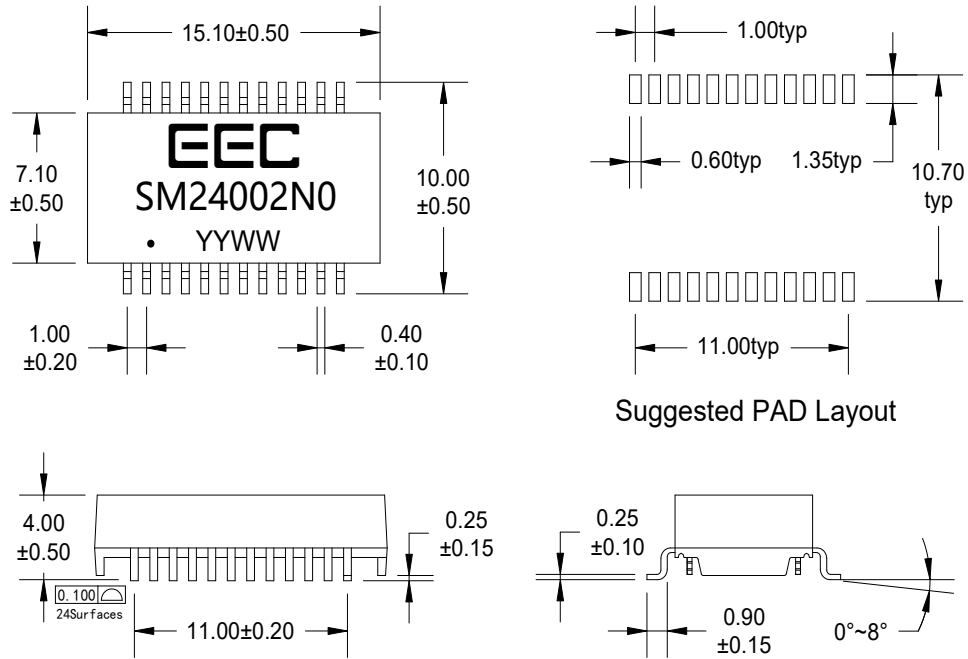


绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址：四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

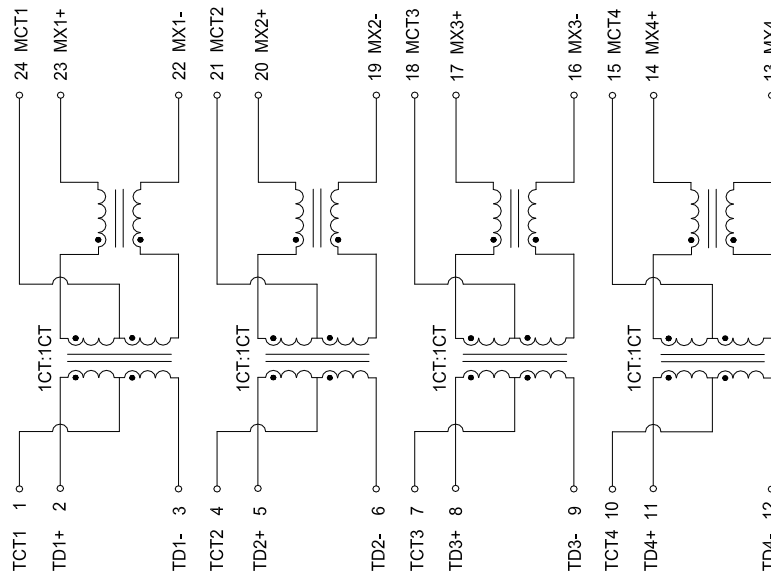
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A. MECHANICAL(unit:mm)



B. Schematics

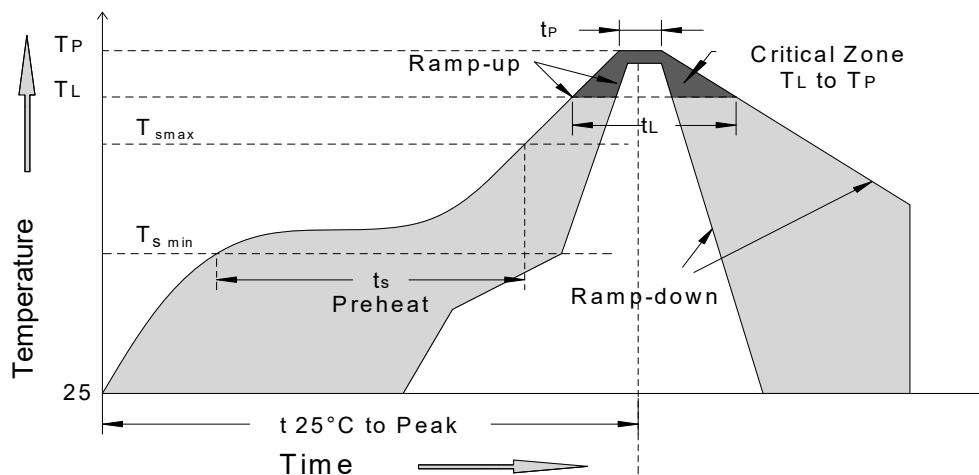


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C. ELECTRICAL SPECIFICATIONS @25°C

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

1. OCL: 120 uH Min @100KHz 0.1V
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: 900mΩ Max
4. Turns Ratio: 1CT:1CT±5%
5. Insertion Loss: -1.2dB max @ 1~200 MHz
-1.5dB max @ 200~300 MHz
-2.0dB max @ 300~400 MHz
-3.0dB max @ 400~500 MHz
6. Return Loss: -18 dB Min @ 1~100 MHz
-16 dB Min @ 100~200 MHz
-12 dB Min @ 200~300 MHz
-10 dB Min @ 300~400 MHz
-8 dB Min @ 400~500 MHz
7. Cross Talk: -25 dB Typ @ 1-500 MHz
8. Common Mode Rejection: -20 dB Typ @ 1-500 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: $\leq 30^\circ C/60\%RH$.

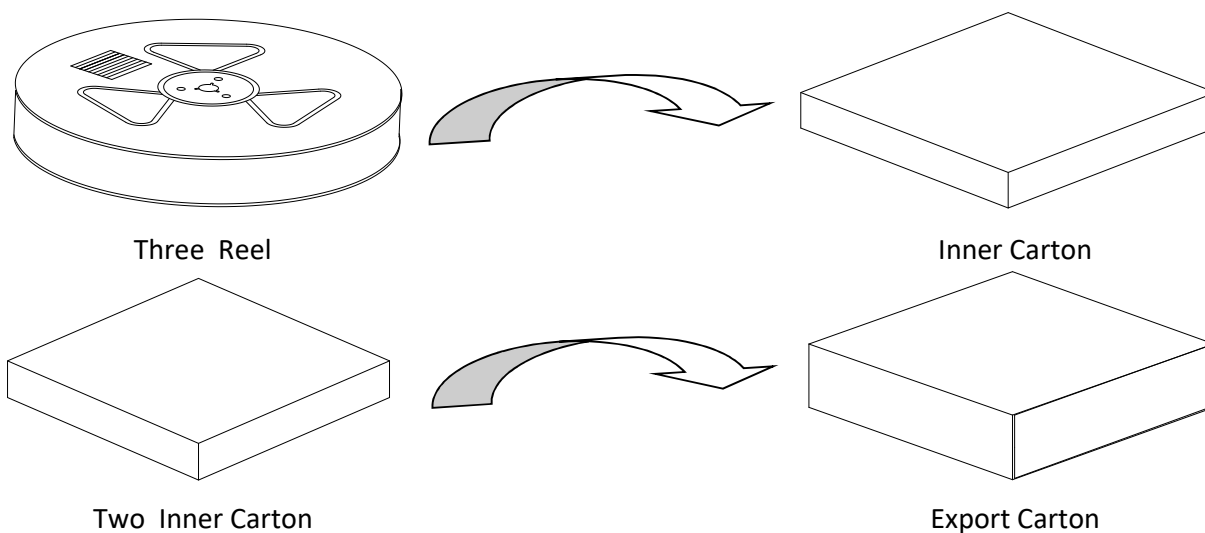
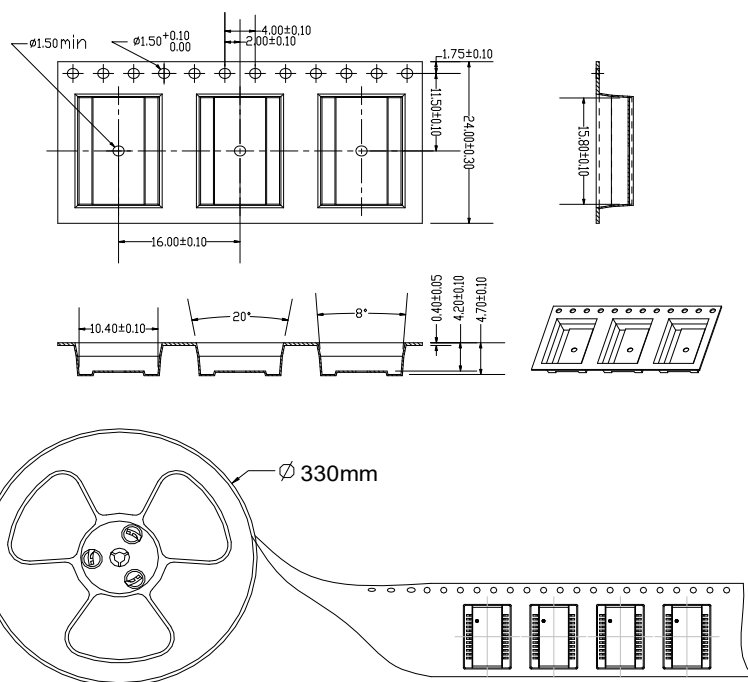
Ramp up rate= $3^\circ C/s$ max Ramp down rate= $6^\circ C/s$ max

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

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

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E. Packaging specification



Package Quantity:

One Reel=800Pcs

One Inner Carton=800*3=2400Pcs

One Export Carton=2400*2=4800Pcs

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