

Specification for Approval

Customer: _____

Customer P/N: _____

EEC P/N: SQ24002N0

Spec No.: _____

Version No.: V0.1

Description: 2.5/5G BASE-T

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Duffy
Checked By:		Checked By:	/
Approved By:		Approved By:	Jerry
Approved Date:		Issued Date:	2024/7/8

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

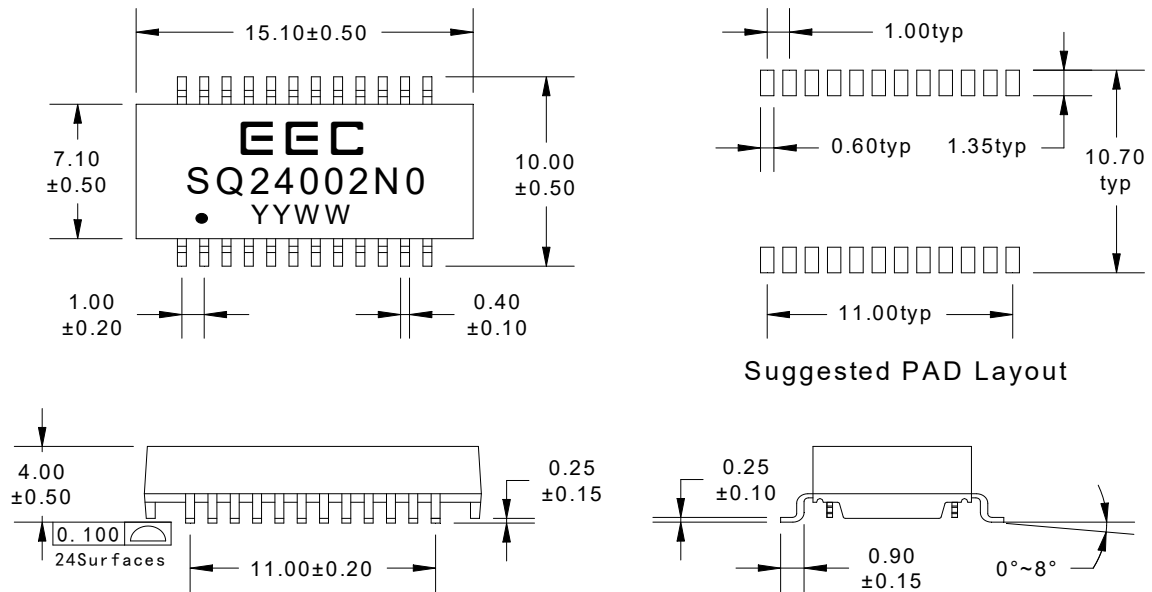
Specification for Approval

Revision History

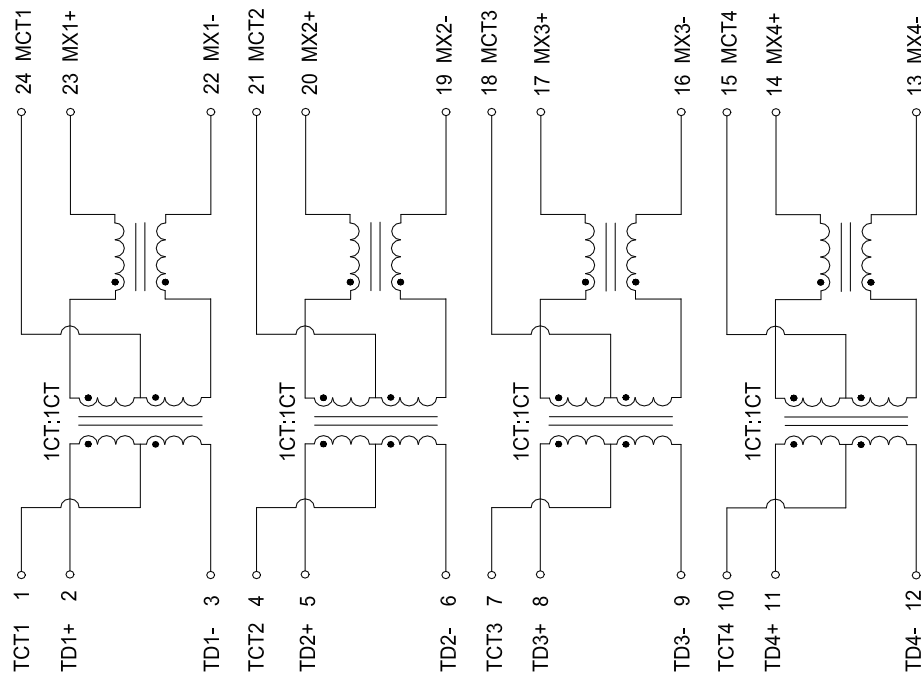
[illegible]

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
2.5/5G BASE-T	SQ24002N0		PAGE: 1/4

A. MECHANICAL(unit:mm)



B. Schematics

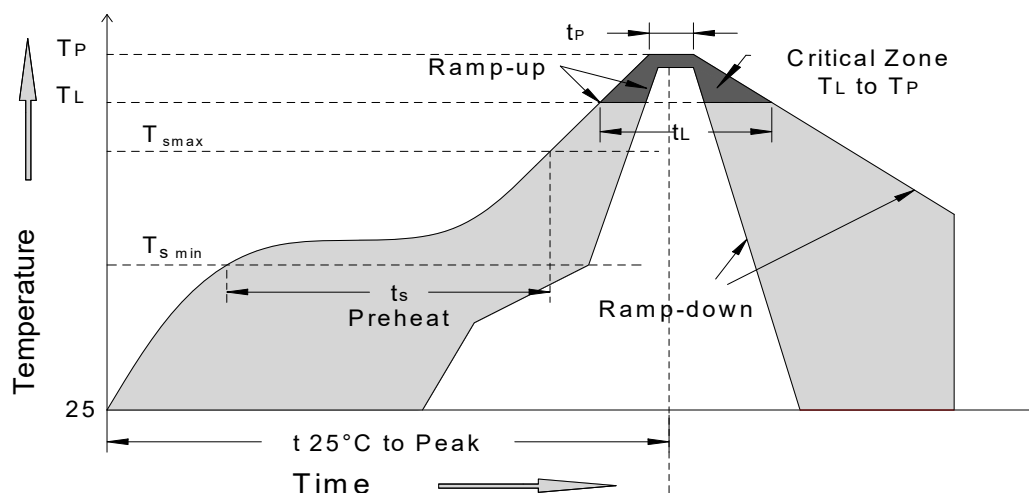


DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
2.5/5G BASE-T	SQ24002N0		PAGE: 2/4

C. ELECTRICAL SPECIFICATIONS @25°C

Unless Otherwise Specified, Testing is Performed at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

1. OCL: 200uH Min @ 100KHz 0.1V
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: 1000mΩ Max
4. Turns Ratio: 1CT:1CT $\pm$ 5%
5. Insertion Loss: -1.0 dB Max @ 1-100 MHz
-2.0 dB Max @ 100-250 MHz
6. Return Loss: -16 dB Min @ $1 \leq f \leq 40$ MHz
-16+10log(f/40) dB Min @ $40 < f \leq 250$ MHz, where f is in MHz
7. Cross Talk: -30 dB Typ @ 1-250 MHz
8. Common Mode Rejection Ratio: -30 dB Typ @ 1-250 MHz
9. Isolation Hipot: 1500VAC 1mA 60S
10. Operating temperature 0°C to $+70^{\circ}\text{C}$
11. Storage temperature -40°C to $+85^{\circ}\text{C}$

D. RECOMMEND REFLOW SOLDERING CURVE

MSL:

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

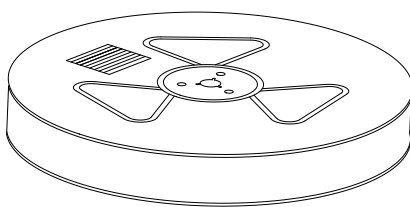
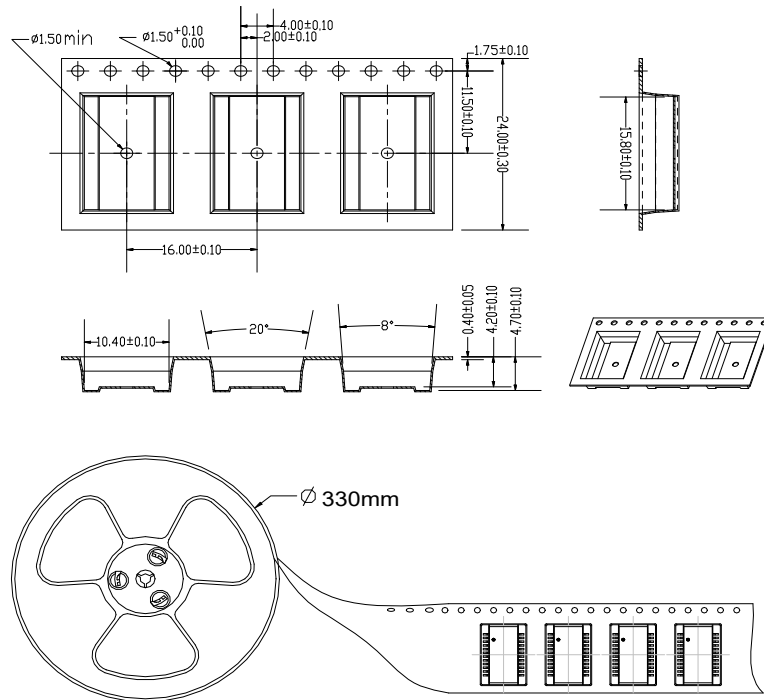
Ramp up rate= $3^{\circ}\text{C}/\text{s}$ max Ramp down rate= $6^{\circ}\text{C}/\text{s}$ max

TL= 217°C tL=60s-150s Tp= $250 \pm 3^{\circ}\text{C}$ Time within 5°C of actual Peak Temperature (tp): 20~40s

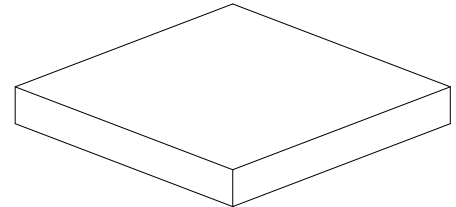
Ts min= 150°C Ts max= 200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
2.5/5G BASE-T	SQ24002N0		PAGE: 3/4

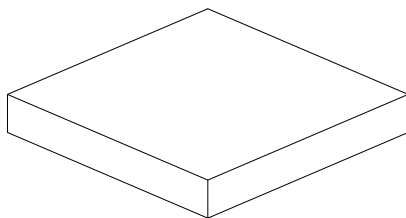
E. Packaging specification



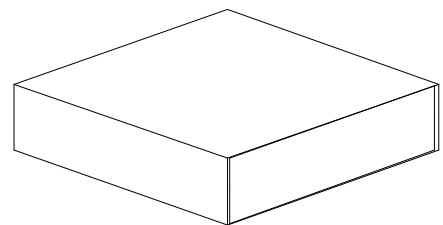
Three Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:

One Reel=800Pcs

One Inner Carton=800*3=2400Pcs

One Export Carton=2400*2=4800Pcs

DESCRIPTION	EEC P/N:	SPEC NO	Version No.: V0.1
2.5/5G BASE-T	SQ24002N0		PAGE: 4/4