

Specification for Approval

Customer:	
Customer P/N:	
EEC P/N:	SH16037A0
Spec No.:	
Version No.:	V0.1
Description:	10/100 BASE-TX
	Laser Marking

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Duffy
Checked By:		Checked By:	/
Approved By:		Approved By:	Jerry
Approved Date:		Issued Date:	2024/7/2

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.

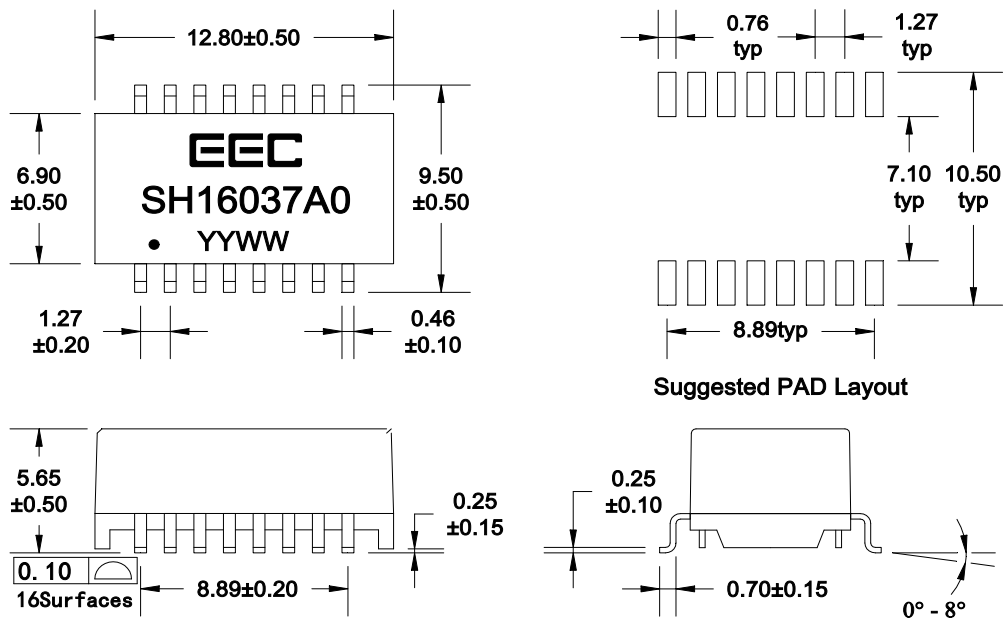


绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址：四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

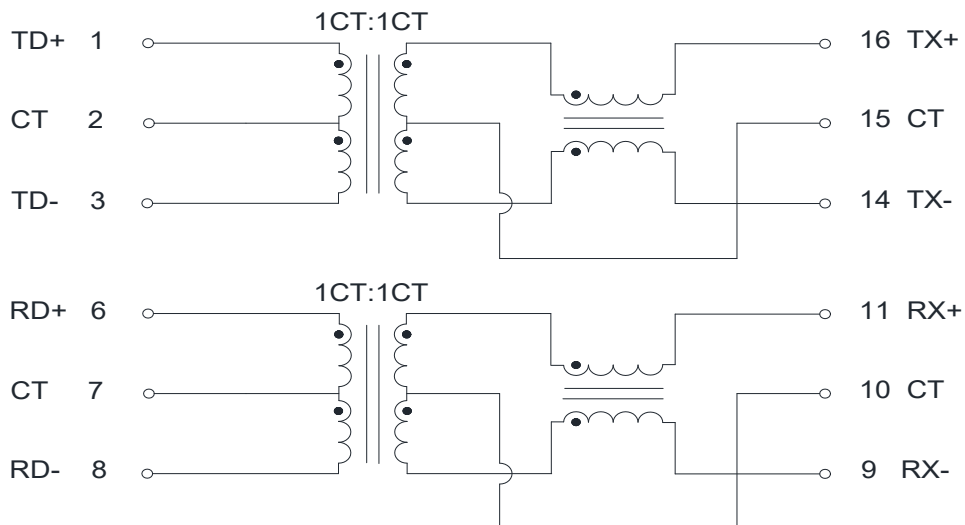
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A. MECHANICAL(unit:mm)



B. Schematics

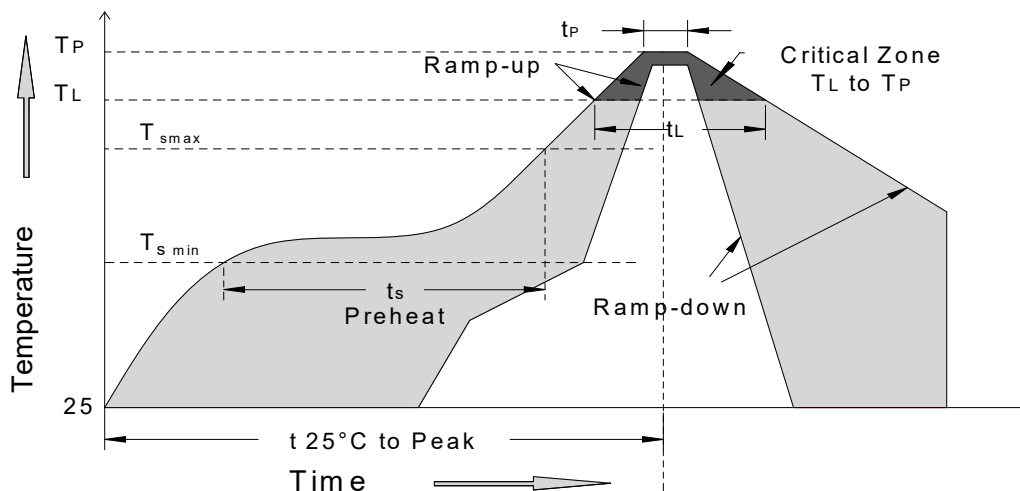


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C. ELECTRICAL SPECIFICATIONS @25°C

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

1. OCL(TD/RD): 350uH Min @ 100 KHz, 0.1V with 8mA DC BIAS
2. Leakage Inductance(TD,TX Shorted/RD,RX Shorted): 0.5uH Max @ 100KHz, 0.1V
3. DCR: Pri(TD/RD): 1.0 OHM Max
Sec(TX/RX): 1.4 OHM Max
4. Turns Ratio(TD:TX/RD:RX): 1CT:1CT±5%
5. Insertion Loss(TD to TX / RD to RX): -1.1 dB Max @ 1-100 MHz
6. Return Loss(100 ohm load on TX/RX side):
-18 dB Min @ 1-30 MHz
-13 dB Min @ 30-60 MHz
-12 dB Min @ 60-80 MHz
7. Cross Talk(Between each channel):
-40 dB Min @ 1-60 MHz
-35 dB Min @ 60-100 MHz
8. Common Mode Rejection(TD to TX/RD to RX):
-37 dB Min @ 1-60 MHz
-30 dB Min @ 60-100 MHz
9. C_{ww}(TD to TX/RD to RX): 35pF Max @ 100KHz, 0.1V
10. Isolation Hipot(Pri-Sec): 1500VAC 1mA 60S or 1650VAC 1mA 2S
11. Operating temperature -40°C to +125°C
12. Storage temperature -40°C to +125°C
13. Compliant with IEEE 802.3 standard.
14. Meet AEC-Q200 Standard.
15. RoHS compliant.

D. RECOMMEND REFLOW SOLDERING CURVE

MSL:

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

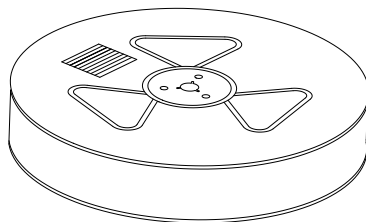
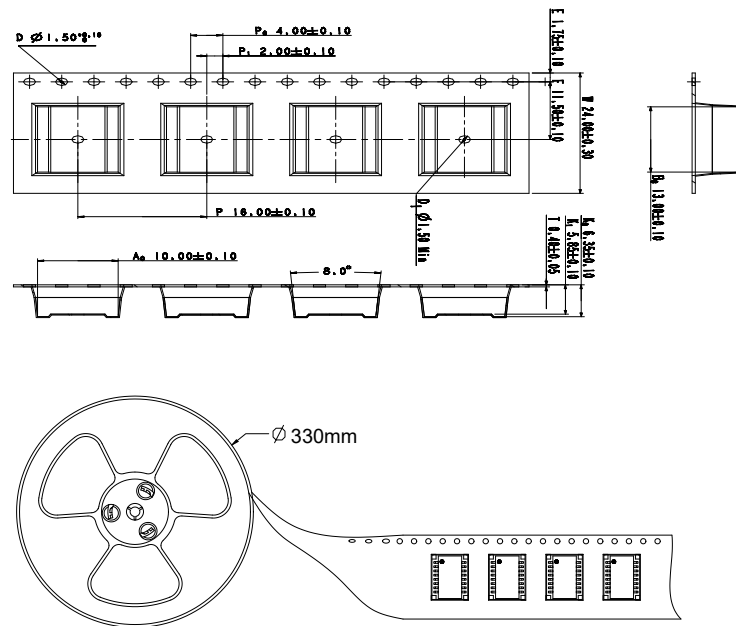
Ramp up rate=3°C/s max Ramp down rate=6°C/s max

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

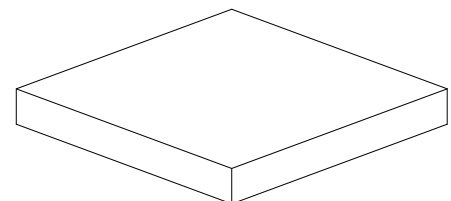
$T_{s\ min}=150^\circ C$ $T_{s\ max}=200^\circ C$ $T_{s\ min\ to\ T_{s\ max}}$: 60s-180s, 25°C to peak Temperature: 8minutes max

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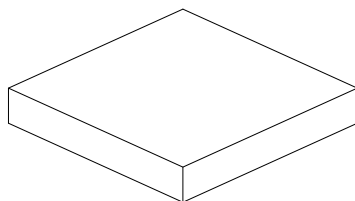
E. Packaging specification



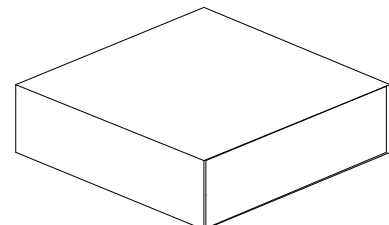
Three Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:

One Reel=600Pcs

One Inner Carton=600*3=1800Pcs

One Export Carton=1800*2=3600Pcs

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