

Specification for Approval

Customer:	
Customer P/N:	
EEC P/N:	ST06A01A0
Spec No.:	
Version No.:	V0.1
Description:	Transformer
	Meet AEC-Q200 Standard
	BMS Application

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Bob
Checked By:		Checked By:	
Approved By:		Approved By:	
Approved Date:		Issued Date:	2024/7/1

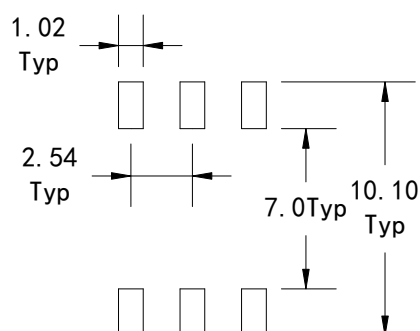
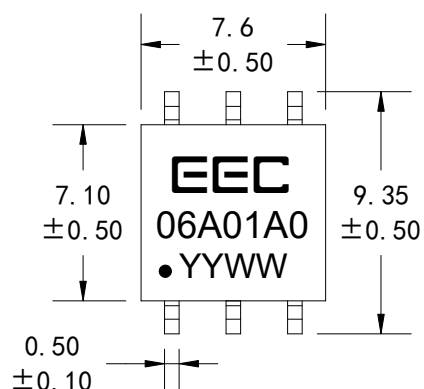
Please Return One Copy to Us After Approved,TKS! (承认后请回寄一份,谢谢)

- 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.

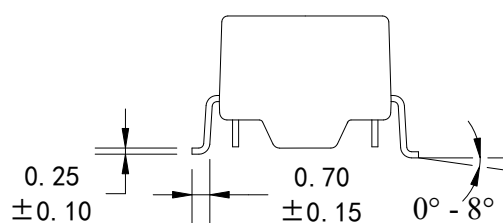
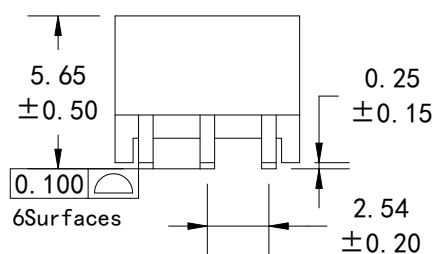


绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址： 四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

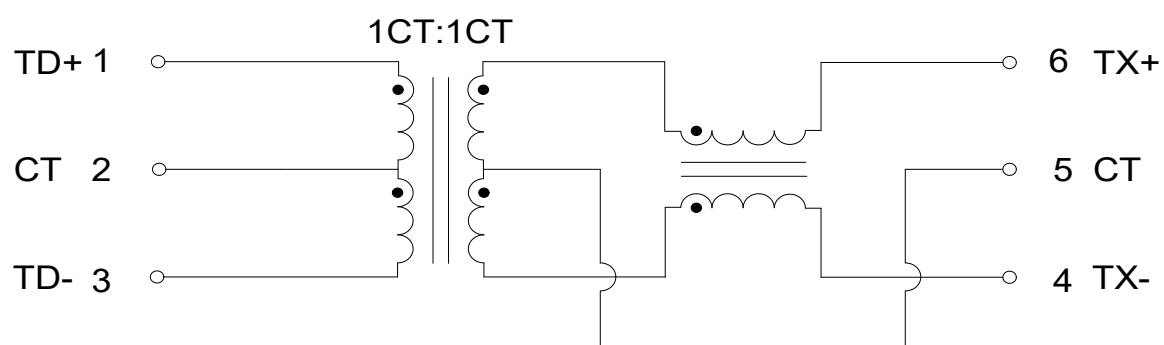
A. MECHANICAL(unit:mm)



Suggested PAD Layout



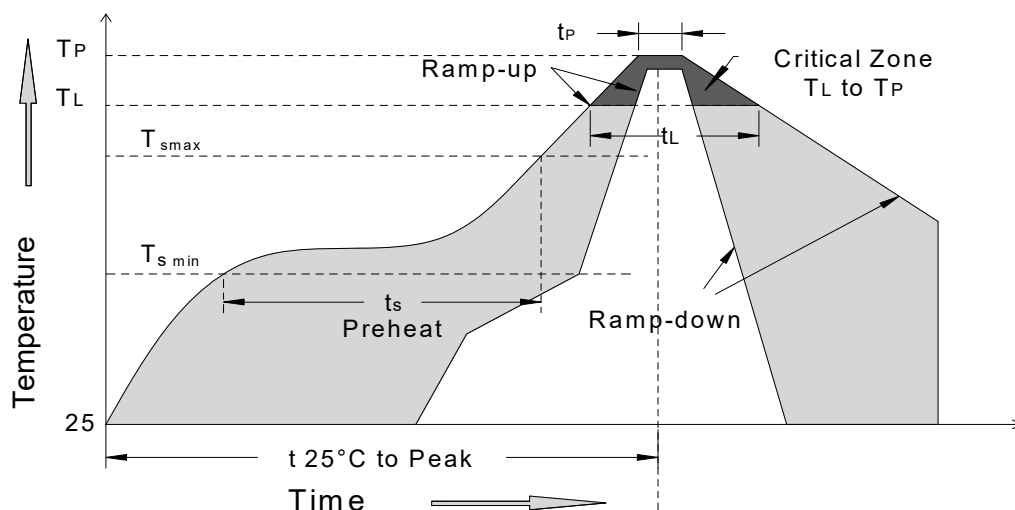
B. Schematics



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C. ELECTRICAL SPECIFICATIONS @25°C

1. OCL: 150 uH Min @ 100 KHz, 0.1V
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: (1 to 3) 450mΩ Max
(6 to 4) 850mΩ Max
4. Turns Ratio: 1CT:1CT±5%
5. Insertion Loss: -0.5 dB Max @ 4 MHz
6. Return Loss: -20 dB Min @ 4 MHz
7. Common Mode Rejection: -35 dB Min @ 1-100 MHz
8. Isolation Hipot: 4300VDC 1mA 60s
9. Moisture Sensitivity Level-1
10. ESD Classification (HBM): N/A
11. Functional insulation, Working Voltage:1000 VDC
12. Qualification: Meet AEC-Q200
13. Operating temperature -40°C to +125°C
14. Storage Temperature(With Package): +10°C to +40°C
15. Storage Temperature(Without Package, Just For Components): -40°C to +125°C
16. RoHS Compliant
17. Qualification: Meet AEC-Q200

D. RECOMMEND WAVE SOLDERING CURVE

MSL:

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

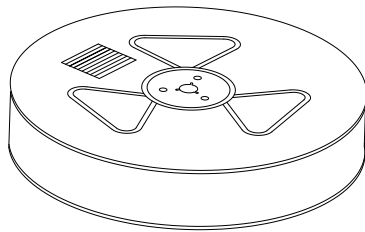
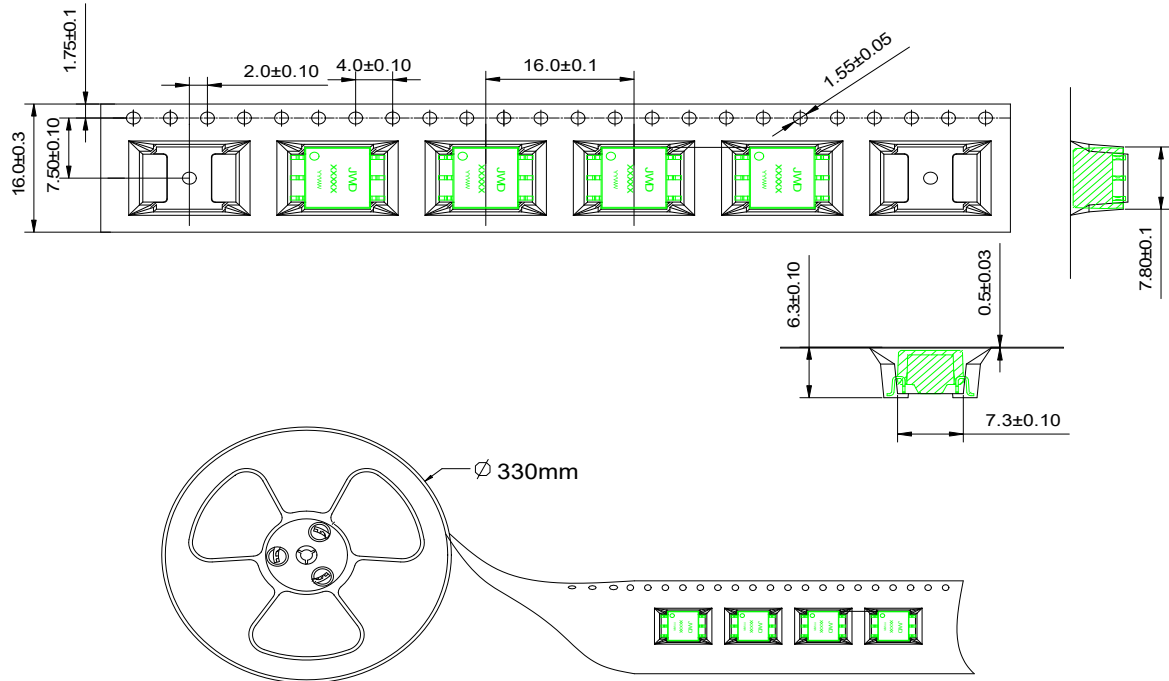
Ramp up rate=3°C/s max Ramp down rate=6°C/s max

Tl=217°C tL=60s-150s Tp=250+/-3°C Time within 5°C of actual Peak Temperature (tp): 20~40s

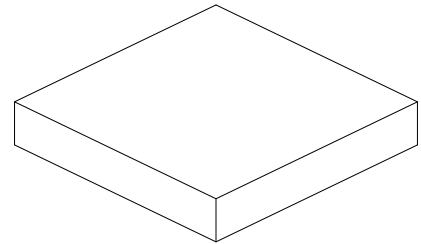
Ts min=150°C Ts max=200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

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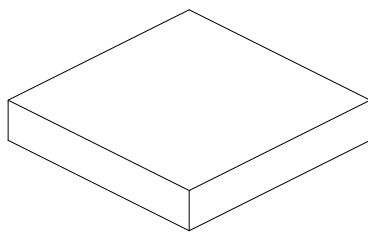
E. Packaging specification



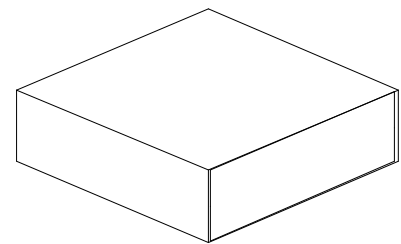
Four Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:

One Reel=600Pcs

One Inner Carton=600*4=2400Pcs

One Export Carton=2400*2=4800Pcs

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