

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:	2023/4/15

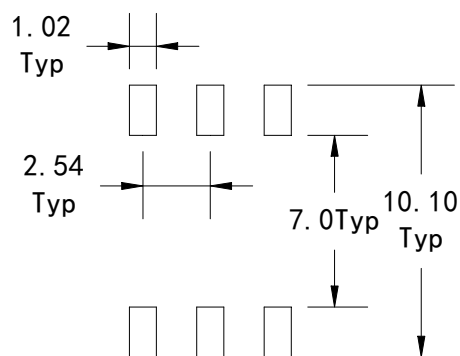
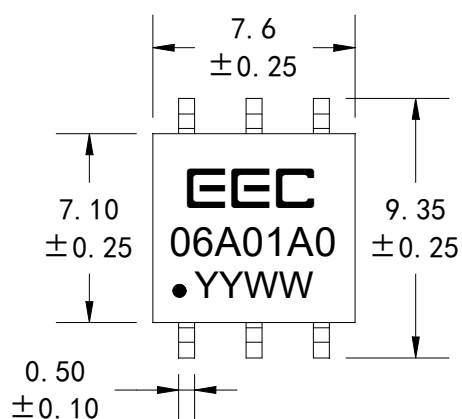
Please Return One Copy to Us After Approved,TKS! (承认后请回寄一份,谢谢)

- 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.

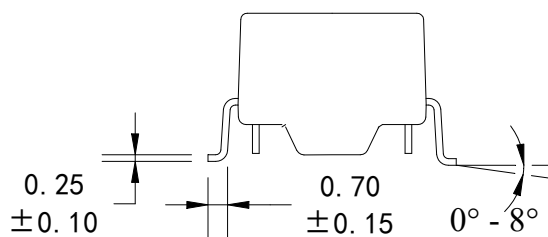
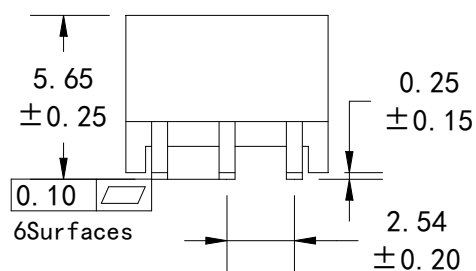


绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址：四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

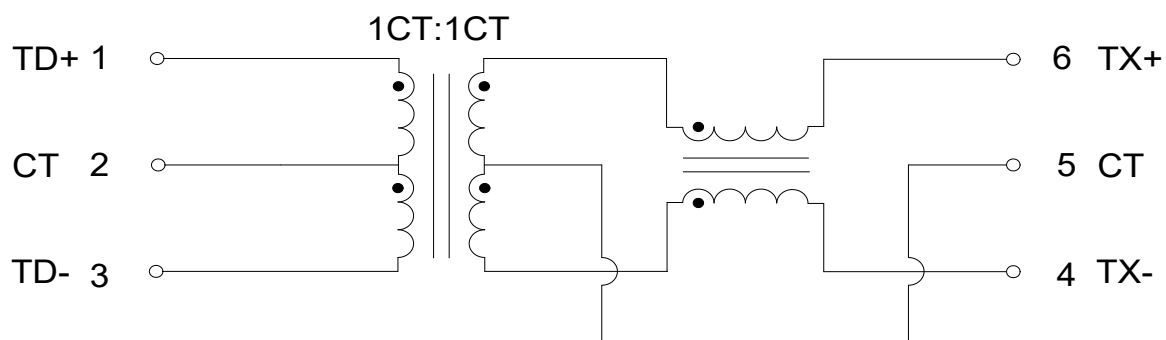
A. MECHANICAL(unit:mm)



Suggested PAD Layout



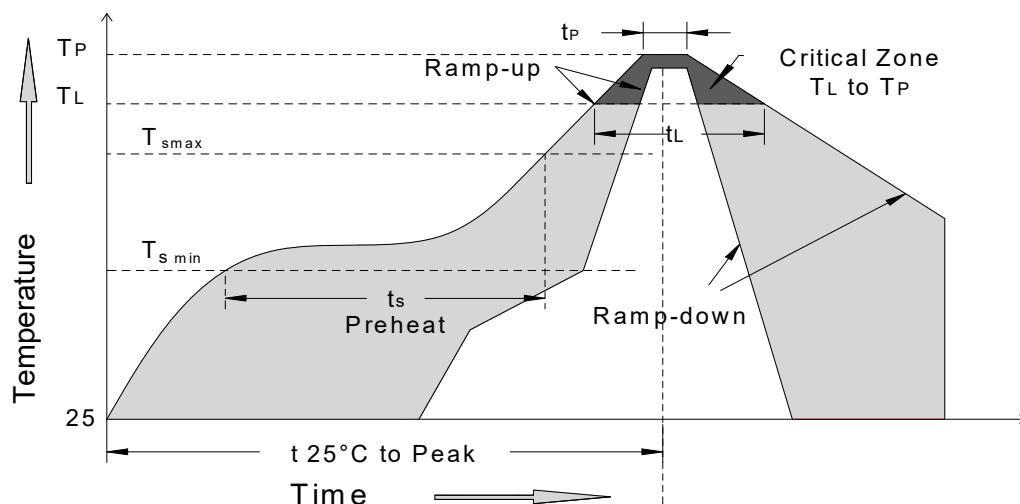
B. Schematics



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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

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

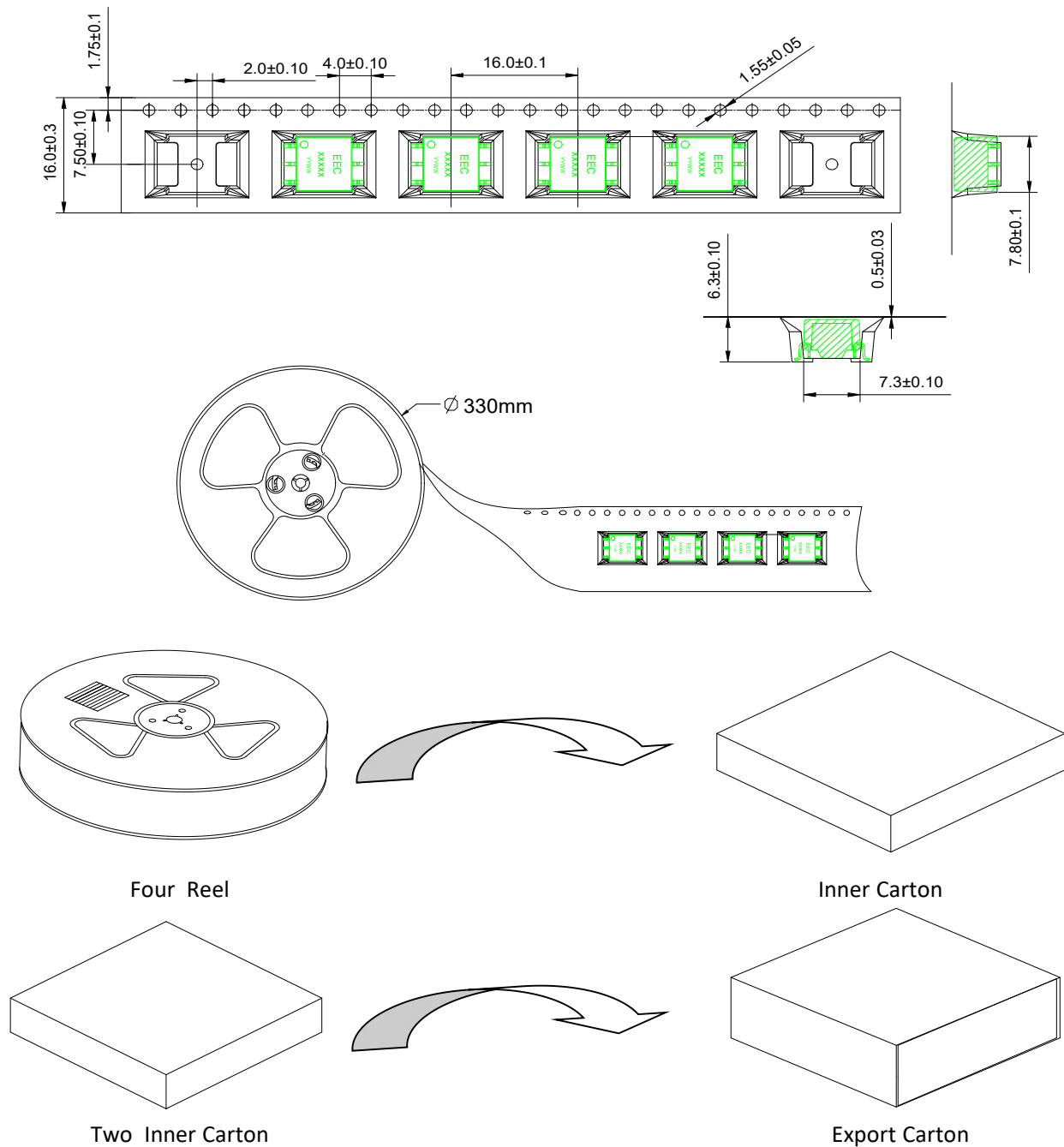
(t_p): 20~40s

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

8minutes max

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E. Packaging specification



Package Quantity:

One Reel=600Pcs

One Inner Carton=600*4=2400Pcs

One Export Carton=2400*2=4800Pcs

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