

# Specification for Approval

## 产品承认书

Customer:

Customer P/N:

VOOHU P/N:

WHST12B03A0

Version No.:

V0.1

Description:

Transformer

BMS Application

Meet AEC-Q200 Standard

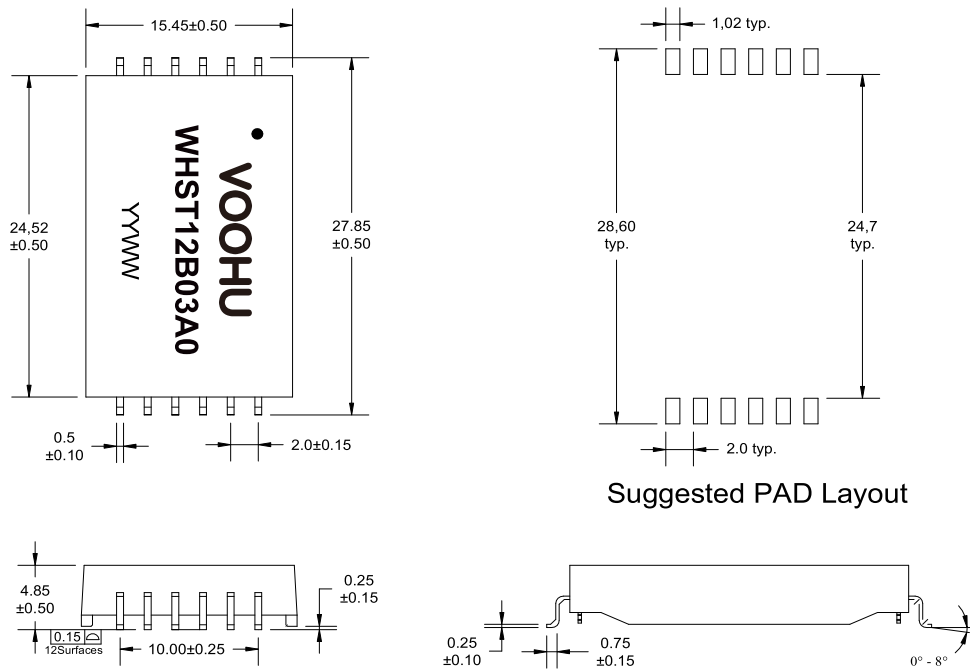
| SUZHOU VOOHU Company Approval |               | Customer Approval<br>(客户承认签章) |
|-------------------------------|---------------|-------------------------------|
| DRAWN                         | Geoffrey.Song |                               |
| CHECKED                       | Sunny.Xu      |                               |
| APPROVED                      | Elvis. Song   |                               |
| 日期DATE:2026/2/02              |               | 日期DATE: 2026/2/02             |

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

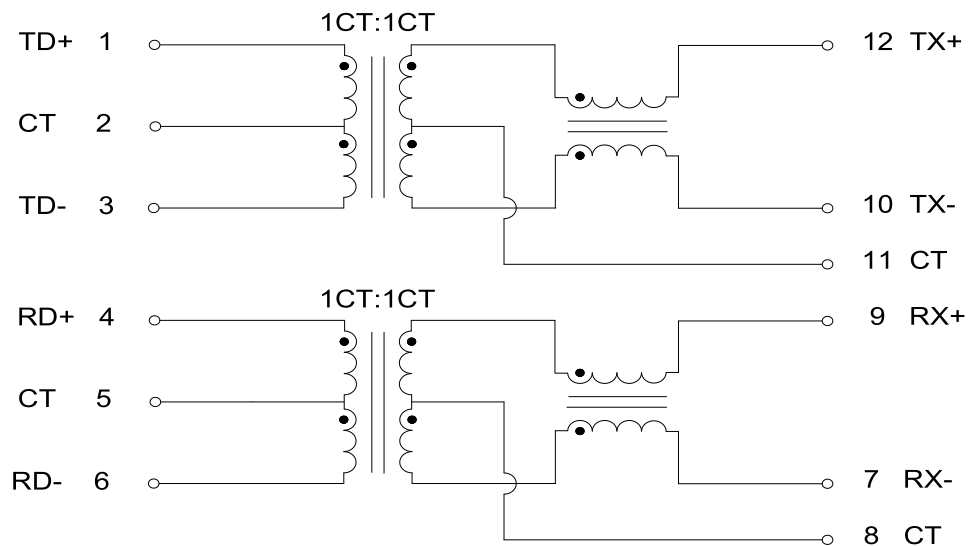
[illegible]

|             |             |          |
|-------------|-------------|----------|
| DESCRIPTION | PART NO.    | REV:R0   |
| Transformer | WHST12B03A0 | PAGE:1/4 |

### A. MECHANICAL(unit:mm)



## B. SCHEMATICS



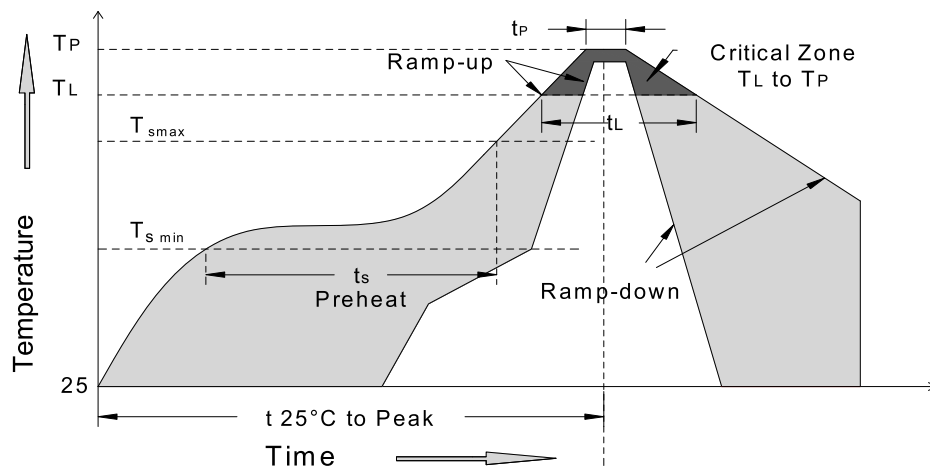
|             |             |          |
|-------------|-------------|----------|
| DESCRIPTION | PART NO.    | REV:R0   |
| Transformer | WHST12B03A0 | PAGE:2/4 |

### C. ELECTRICAL SPECIFICATIONS @25℃

Unless Otherwise Specified, Testing is Performed at 25℃ ± 5℃

1. OCL(TD & RD): 250uH Min. @ 100 KHz, 0.1V, 25℃  
100uH Min. @ 100 KHz, 0.1V, -40℃~125℃
2. Leakage Inductance(TD & RD, TX & RX shorted): 0.5uH Max @ 100KHz, 0.1V
3. DCR(TD & RD): 750mΩ Max  
DCR(TX & RX): 1000mΩ Max
4. Turns Ratio(Pri to Sec): 1CT:1CT±2%
5. Insertion Loss(TD to TX & RD to RX): -0.40 dB Max @ 4 MHz
6. Return Loss(TD & RD, TX & RX with 100 ohm load): -20 dB Min @ 4 MHz
7. Crosstalk Adjacent Channels (TD to RD): -50 dB Min @ 4 MHz
8. Common Mode Rejection(TD to TX & RD to RX): -35 dB Min @ 1-10 MHz  
-20 dB Min @ 10-100 MHz
9. Differential to common rejection ratio: -35 dB Min @ 1-30MHz  
-30 dB Min @ 30-80 MHz  
-25 dB Min @ 80-100 MHz
10. Isolation Hipot: 6300VDC 1mA 60S (Equivalent to 4400VAC 1mA 60S) or 5300VAC 1mA 2s
11. Reinforced Insulation At a Working Voltage Of 1500VDC And The Creepage Distance Of 22mm Min And The clearance distance Of 20mm Min.
12. Insulation Resistance: 400 Mohm Min
13. IEC 60112 Compliant, Comparative Tracking Index (CTI): I (≥600V)
14. Operating Temperature: -40℃ to +125℃
15. Storage Temperature(With Package): +10℃ to +40℃
16. Storage Temperature(Without Package, Just For Components): -40℃ to +125℃
17. RoHS Compliant

### D. RECOMMEND REFLOW SOLDERING CURVE



MSL:

Grade: 1 level. Floor life: 0.5 year Condition: ≤30℃/60%RH.

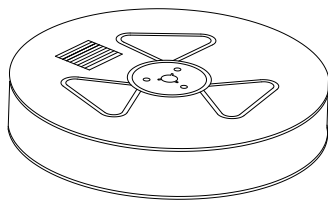
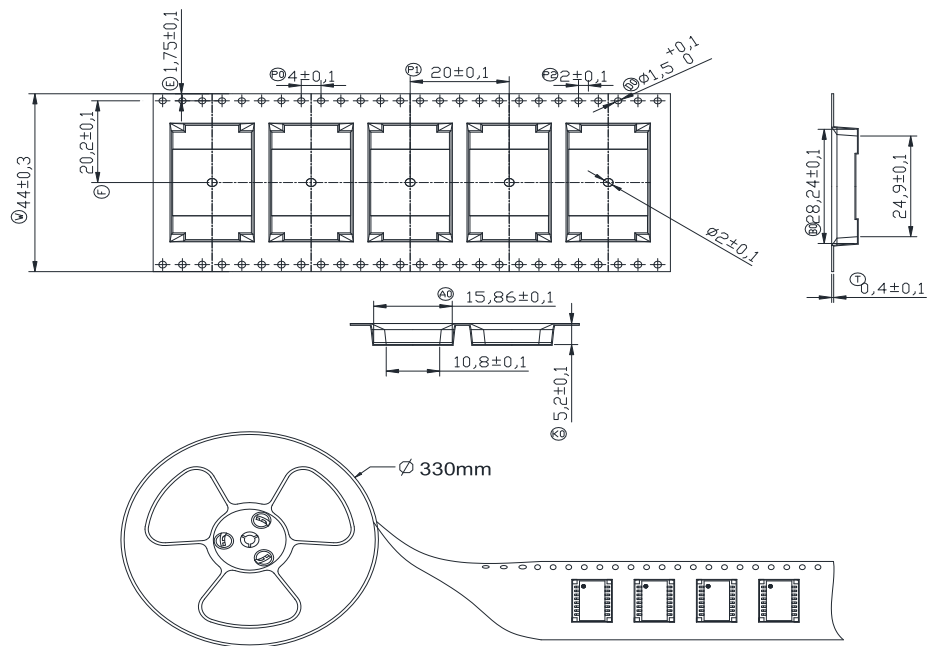
Ramp up rate=3℃/s max Ramp down rate=6℃/s max

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

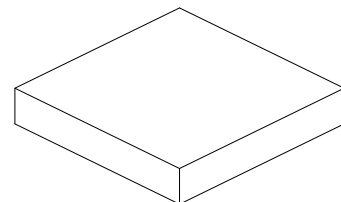
Ts min=150℃ Ts max=200℃ Ts min to Ts max: 60s-180s, 25℃ to peak Temperature: 8minutes max

| DESCRIPTION | PART NO.    | REV:R0   |
|-------------|-------------|----------|
| Transformer | WHST12B03A0 | PAGE:3/4 |

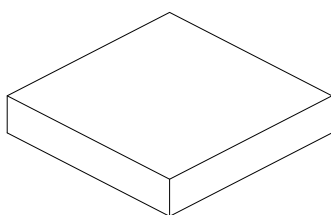
## E. PACKAGE INFORMATION



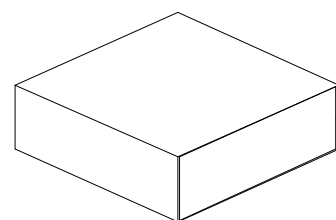
Two Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:

One Reel=600Pcs

One Inner Carton=600\*2=1200Pcs

One Export Carton=1200\*2=2400Pcs

| DESCRIPTION | PART NO.    | REV:R0   |
|-------------|-------------|----------|
| Transformer | WHST12B03A0 | PAGE:4/4 |