

APPROVED SHEET

CUSTOMER: _____

CUSTOMER P/N: _____

JWD P/N: S12B03BA

REV: R1

DESCRIPTION: Transformer

Meet AEC-Q200 Standard

BMS Application

CUSTOMER APPROVAL		COMPANY APPROVAL	
INSPECTED BY:		ISSUED BY:	Bob
CHECKED BY:		CHECKED BY:	
APPROVED BY:		APPROVED BY:	
APPROVED DATE:		ISSUED DATE:	2021/9/13

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



四川经纬达科技集团有限公司

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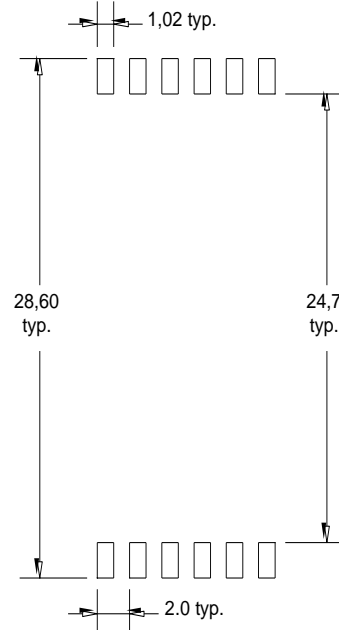
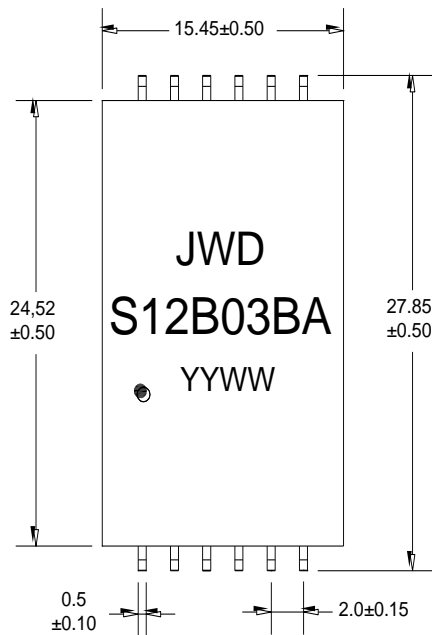
WEB: www.myjwd.com



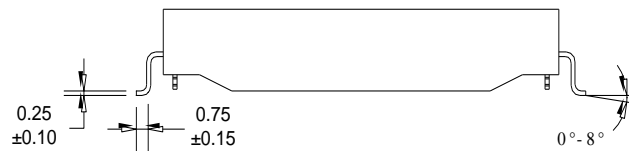
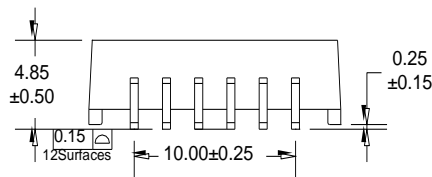
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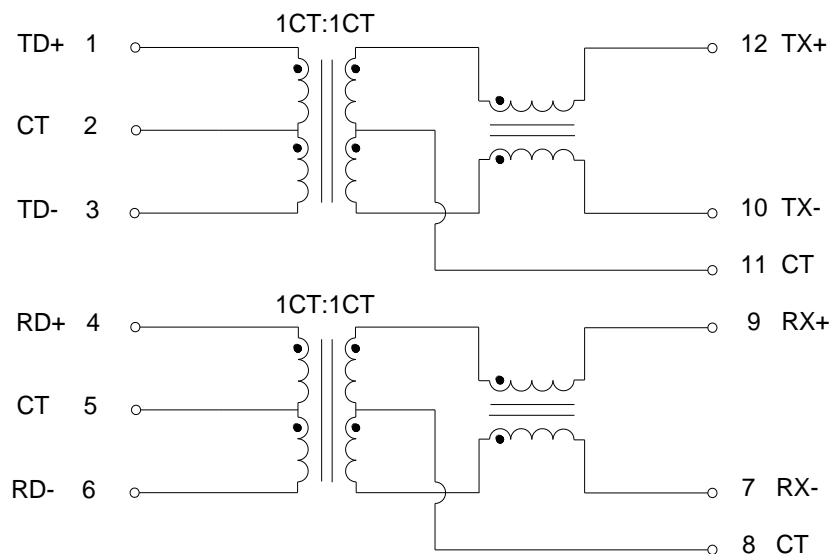
A. MECHANICAL(unit:mm)



Suggested PAD Layout



B. SCHEMATICS



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C. ELECTRICAL SPECIFICATIONS @25°C

1. OCL(TD & RD): 250uH Min. @ 100 KHz, 0.1V, 25°C
100uH Min. @ 100 KHz, 0.1V, -40°C~125°C
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
12. Insulation Resistance:400 Mohm Min
13. IEC 60112 Compliant, Comparative Tracking Index (CTI): I (≥600V)
14. Operating Temperature: -40°C to +125°C
15. Storage Temperature(With Package): +10°C to +40°C
16. Storage Temperature(Without Package, Just For Components): -40°C to +125°C
17. RoHS Compliant

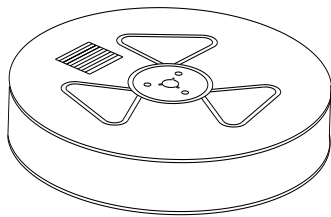
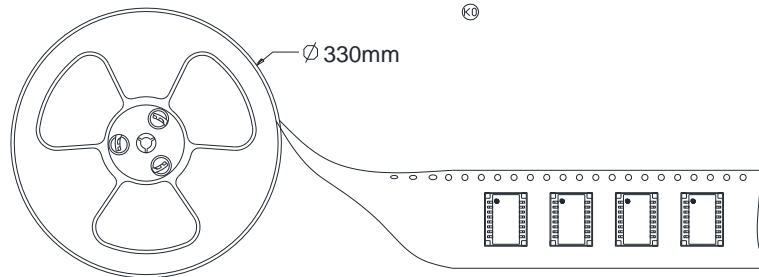
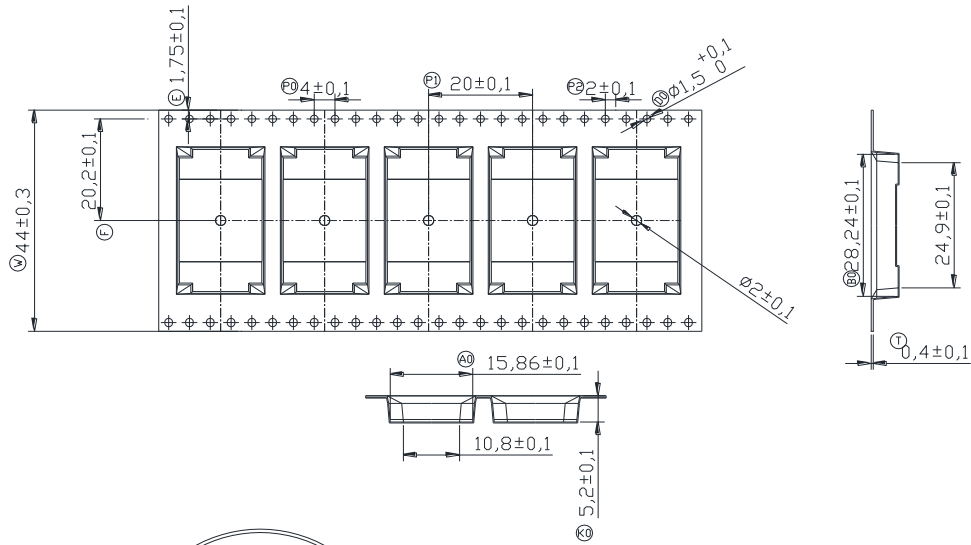
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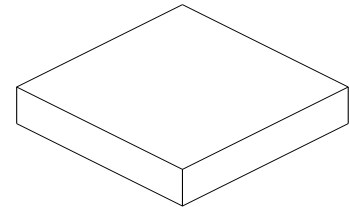
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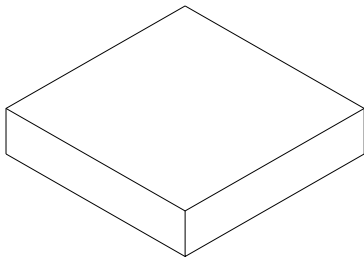
D. PACKAGE INFORMATION



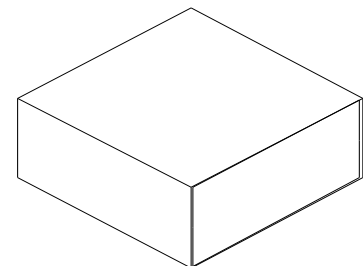
Two Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:

One Reel=600Pcs

One Inner Carton=600*2=1200Pcs

One Export Carton=1200*2=2400Pcs

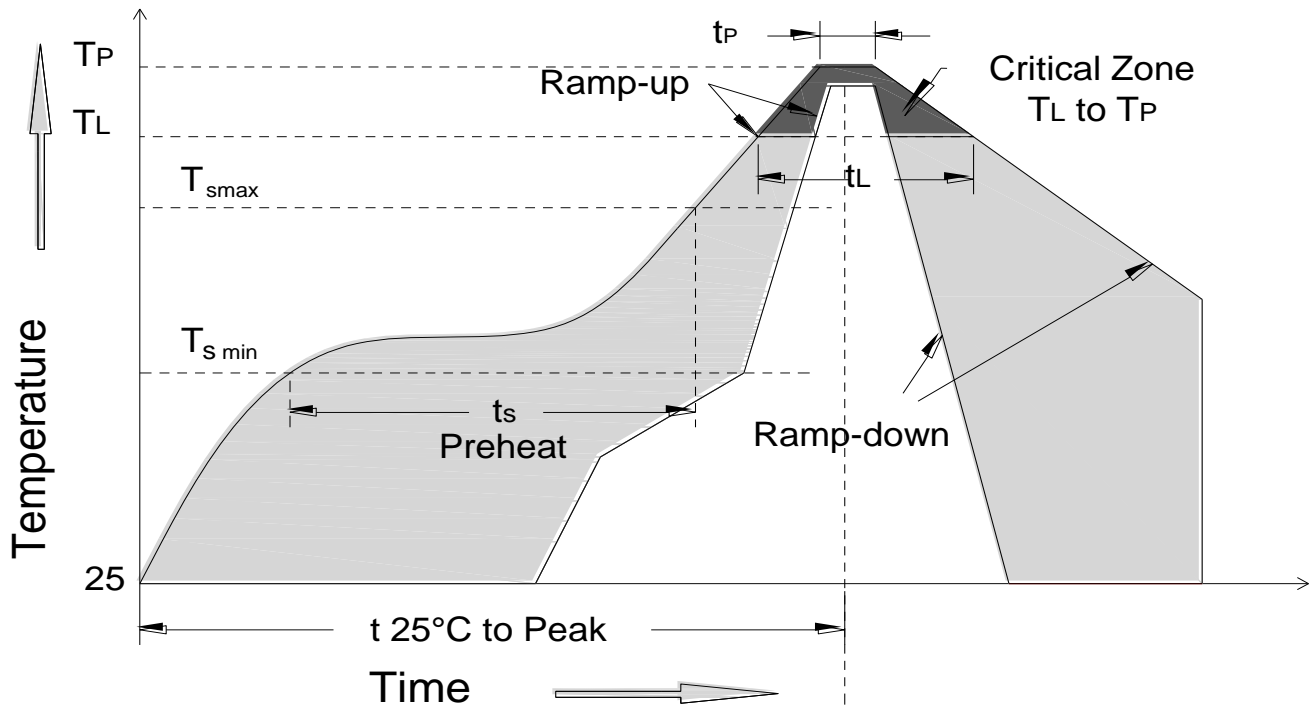
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E. RECOMMEND REFLOW SOLDERING CURVE



MSL:

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

Ramp up rate=3 °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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