

APPROVED SHEET

CUSTOMER: _____

CUSTOMER P/N: _____

JWD P/N: _____

S12E01BA

REV: _____

R0

DESCRIPTION: _____

10/100 BASE-TX

Meet AEC-Q200 Standard

CUSTOMER APPROVAL		COMPANY APPROVAL	
INSPECTED BY:		ISSUED BY:	Duffy
CHECKED BY:		CHECKED BY:	
APPROVED BY:		APPROVED BY:	
APPROVED DATE:		ISSUED DATE:	2023/7/25

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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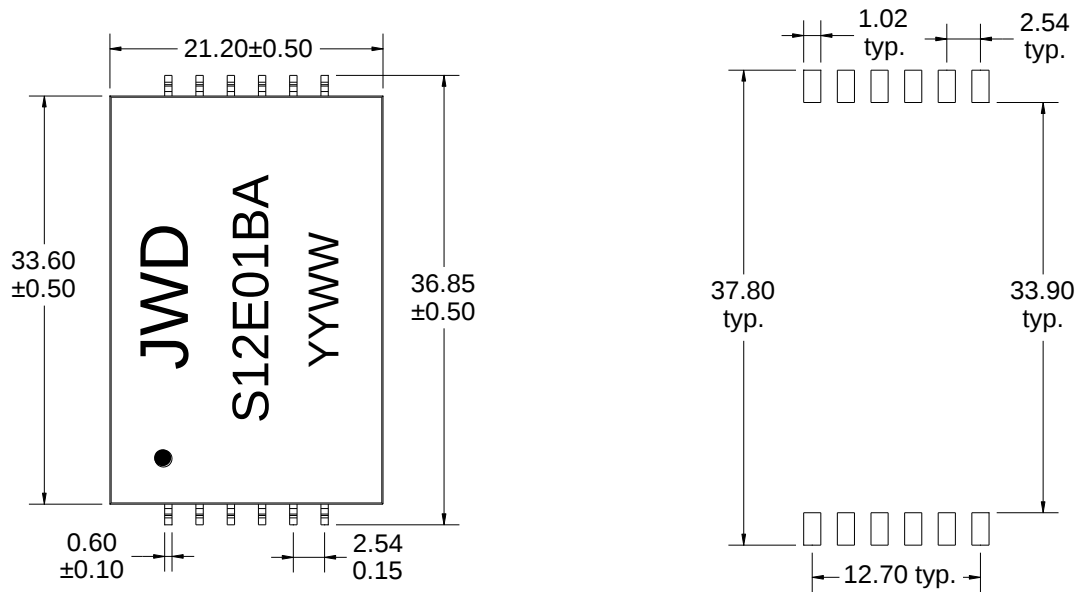




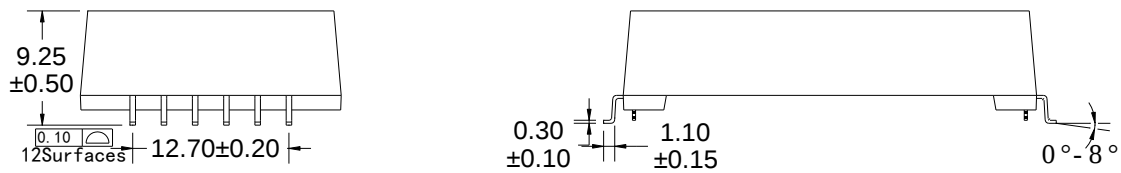
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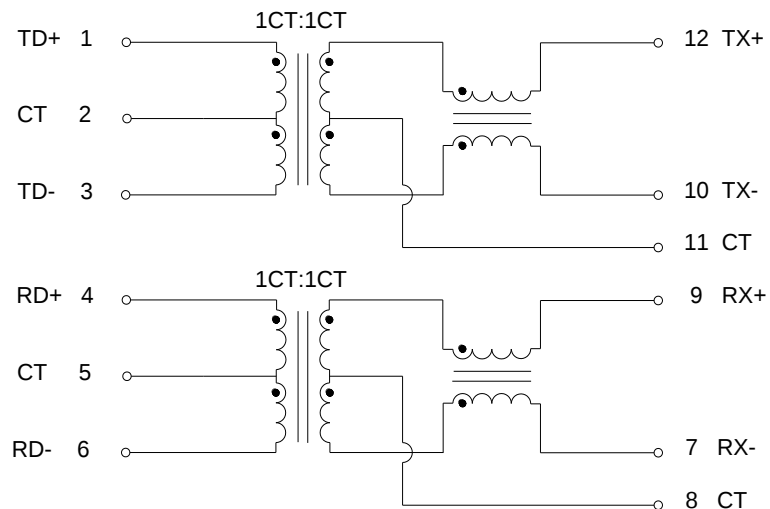
A. MECHANICAL(unit:mm)



Suggested PAD Layout



B. SCHEMATICS



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C. ELECTRICAL SPECIFICATIONS @25°C

1. OCL(TD & RD): 400uH Typ. @ 100 KHz, 0.1V, 25°C
120uH 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: 1200mΩ 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: 4300VDC 1mA 60S (Equivalent to 3100VAC 1mA 60S) or 3700VAC 1mA 2s
11. Reinforced Insulation At a Working Voltage Of 1600VDC And The Creepage Distance Of 30mm Min
12. Insulation Resistance:400 Mohm Min
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

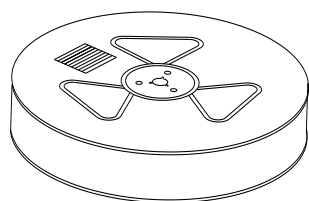
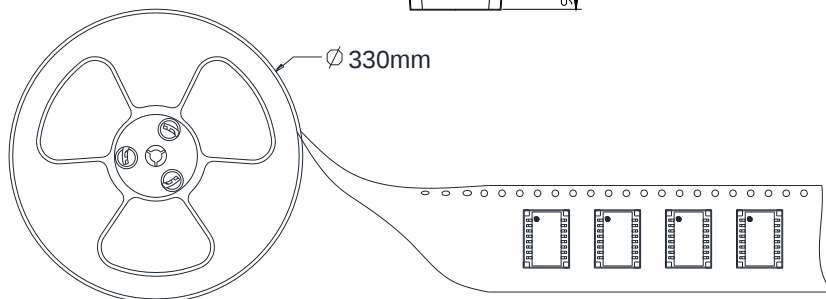
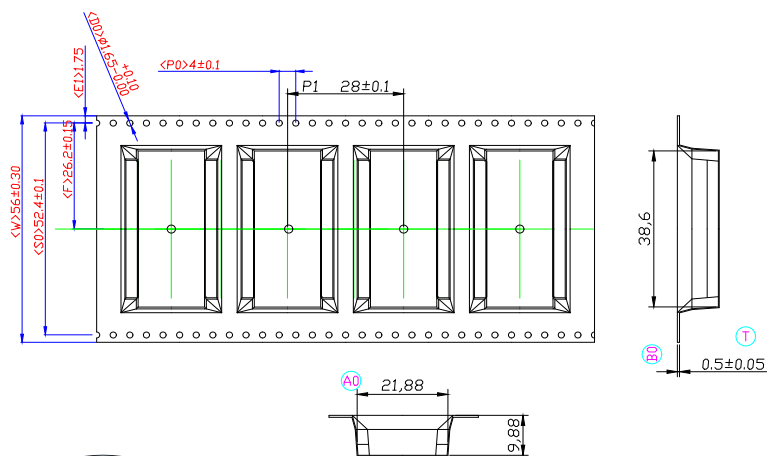
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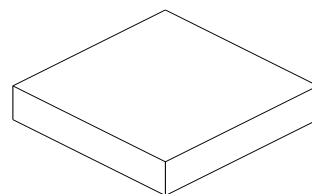
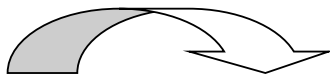
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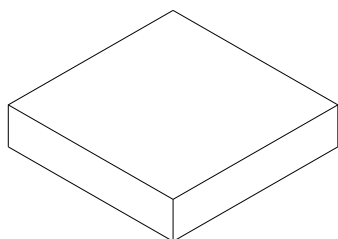
D. PACKAGE INFORMATION



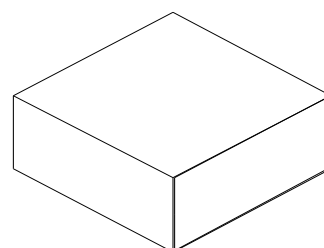
One Reel



Inner Carton



Five Inner Carton



Export Carton

Package Quantity:

One Reel=200Pcs

One Inner Carton=200*1=200Pcs

One Export Carton=200*5=1000Pcs

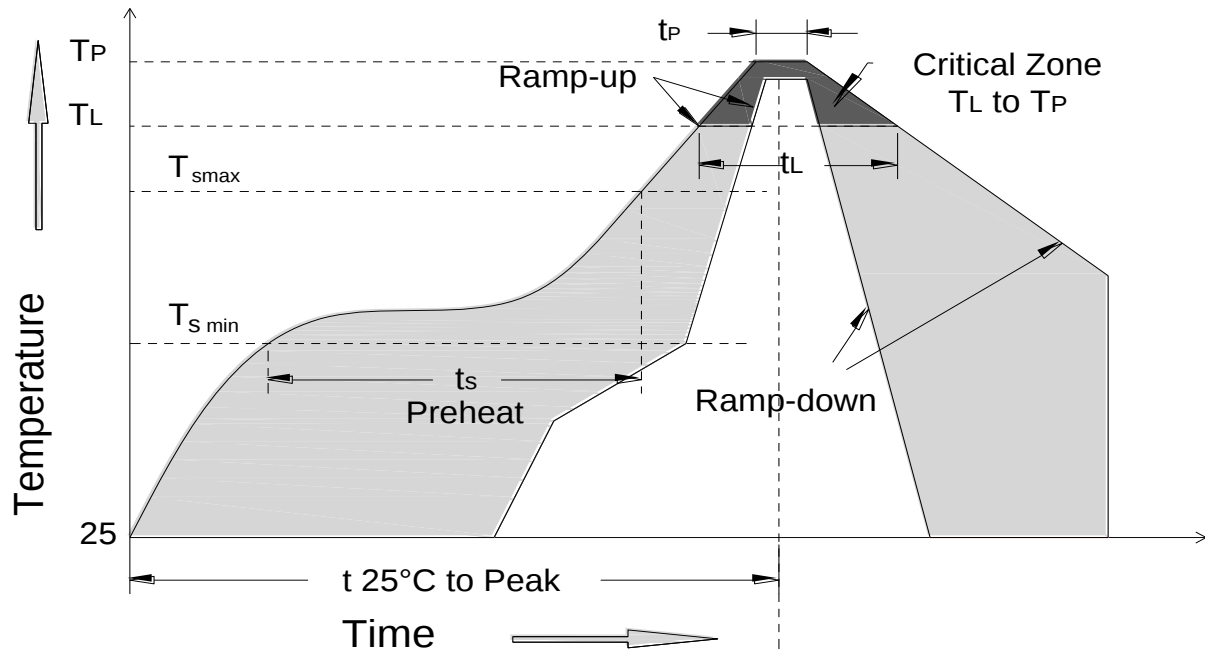
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E. RECOMMEND REFLOW SOLDERING CURVE



MSL:

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

Ramp up rate=3 $^{\circ}\text{C}/\text{s}$ max Ramp down rate=6 $^{\circ}\text{C}/\text{s}$ max

TL=217 $^{\circ}\text{C}$ tL=60s-150s TP=250 $\pm$ 3 $^{\circ}\text{C}$ Time within 5 $^{\circ}\text{C}$ of actual Peak Temperature (tp): 20~40s

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

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