



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date: 8/05/2002 (REV. NO:2)

Product Name: SMD 5.0x3.2 26.0MHz Crystal Unit

TST Parts No.: TZ0133A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kelly Huang

Approval by: _____ TF Yang

Date: _____ 8/5/2002



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SMD 5.0x3.2 26.0MHz Crystal Unit

MODEL NO.: TZ0133A

REV. NO.: 2

Features:

- Surface Mount Seam Weld Package
- Excellent Aging
- Good Frequency Perturbation and Stability over temperature
- Ultra Miniature Package

RoHS Compliant
Lead free
Lead-free soldering

Description and Applications:

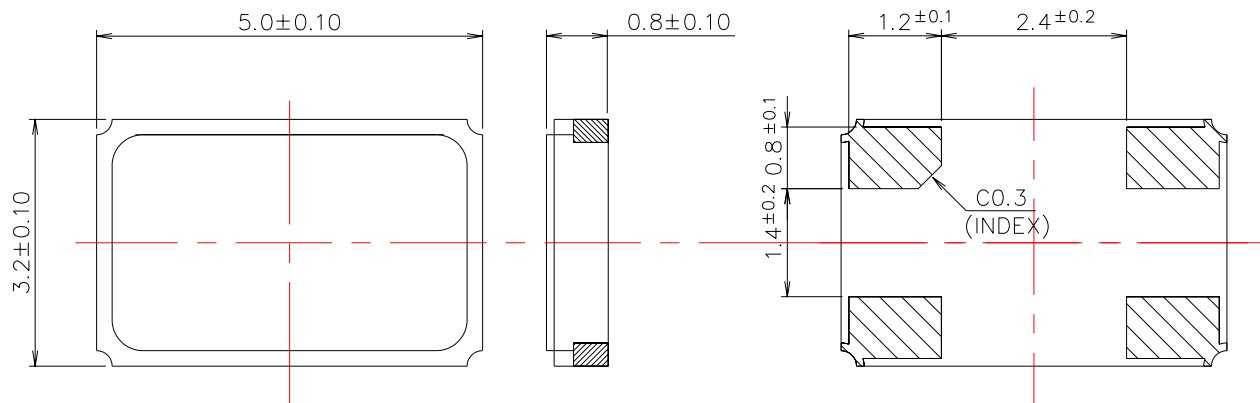
Surface mount 5.0mmx3.2mm crystal unit for use in wireless telecommunications devices, especially for a need of ultra miniature package for mobility.

Electrical Specifications:

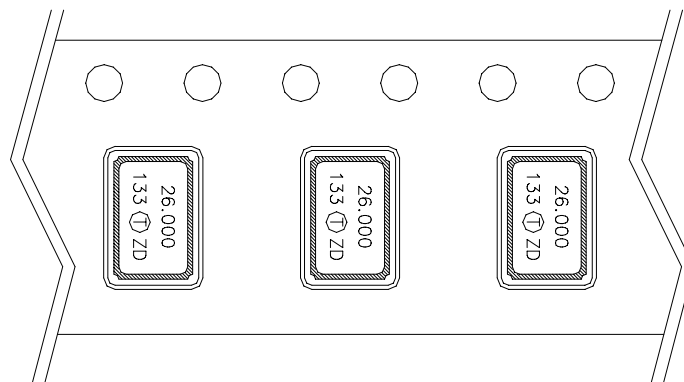
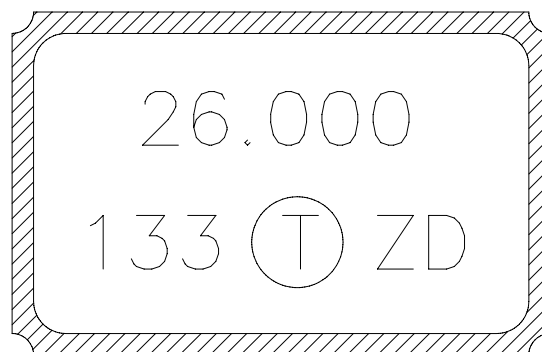
TZ0133A	Specification
Nominal Frequency	26.0 MHz
Mode of Vibration	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +75°C
Frequency Stability over Operating Temperature	+/- 10ppm
Frequency Make Tolerance	±10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (R)	40 Ω max.
Drive Level	100 uW nominal
Shunt Capacitance (Co)	2.0 pF max
Motional Capacitance (C1)	6.0 fF +/- 20%
Load Capacitance-CL	10 pF +/-0.1 pF
Pulling Sensitivity	18~25 ppm/pF (@10 pF Load)
Dips	+/-0.28 ppm/°C max
Insulation Resistance	500 MΩ min./DC 100V

Aging	± 1.0 ppm/year @25°C
Marking	Laser marking

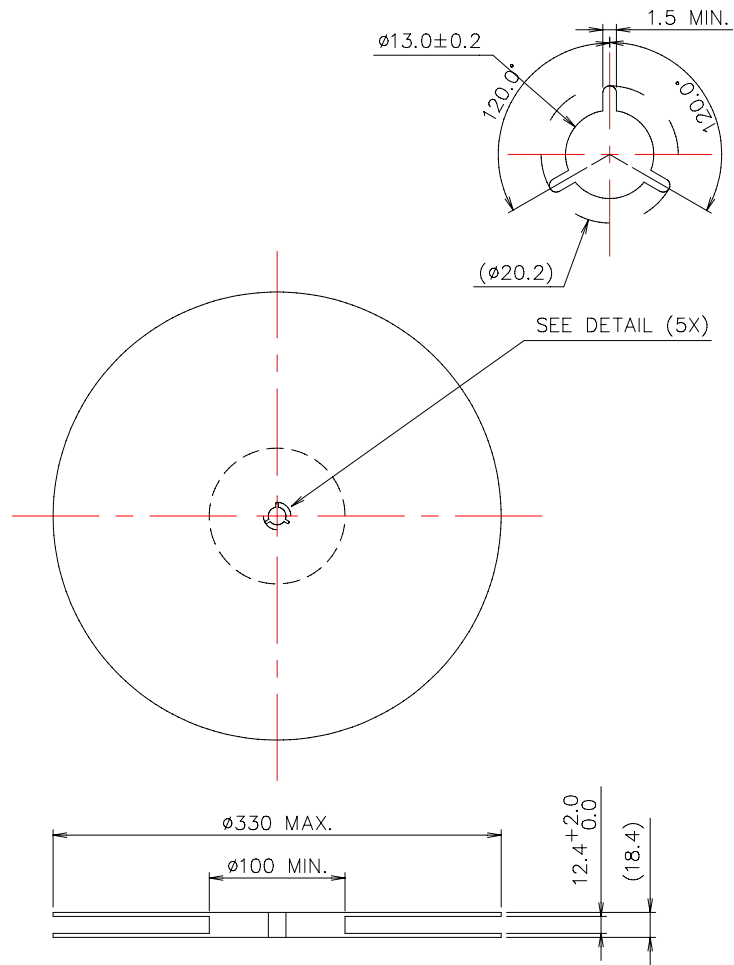
Mechanical Dimensions (mm):



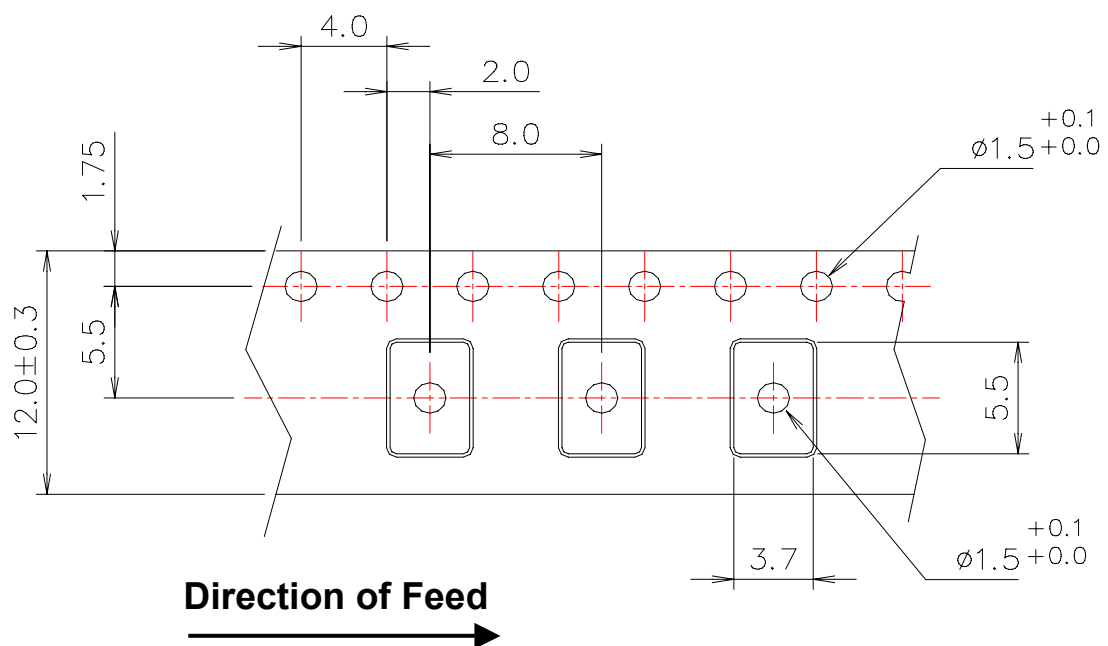
Marking:



Reel Dimensions (mm):



Tape Dimensions (mm):



[NOTE]:

1. Unless otherwise specified tolerance on dimension ± 0.1 mm.
2. Material: conductive polystyrene.
3. Color: black.
4. 10 pitch cumulative tolerance ± 0.2 mm.

Reflow Profile:

1. Preheating shall be fixed at $140 \sim 160$ °C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150 °C shall be 30 seconds min.
3. Heating shall be fixed at 200 °C for 50 ~ 60 seconds and at 230 ± 10 °C peak.

