



# 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: 10/11/2002

Product Name: SMD6x3.5 22MHz Crystal Resonator

TST Part No.: TZ0159A

Customer Part No.: \_\_\_\_\_

Company: \_\_\_\_\_

Division: \_\_\_\_\_

Approved by : \_\_\_\_\_

Date: \_\_\_\_\_

Checked by: \_\_\_\_\_ Robert Chang

Approved by: \_\_\_\_\_ TF Yang

Date: \_\_\_\_\_ 10/11/2002



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## SMD6x3.5 22MHz Crystal Resonator

MODEL NO.: TZ0159A

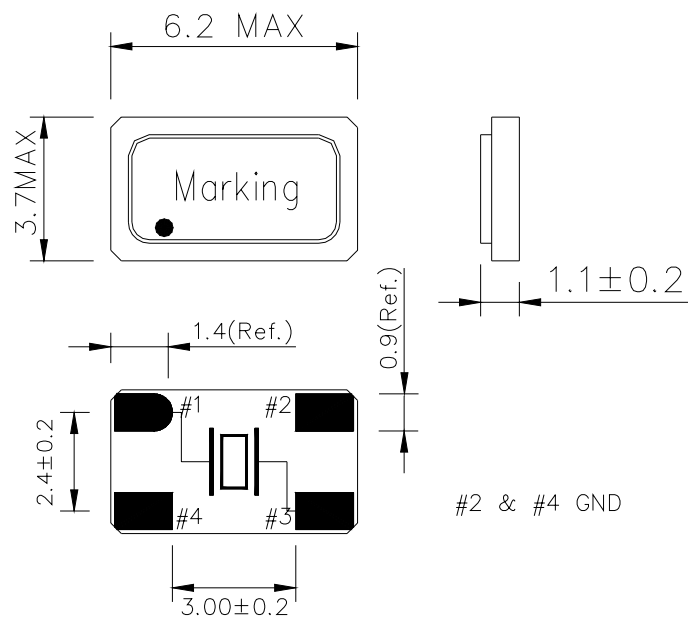
REV. NO.: 1

RoHS Compliant  
Lead free  
Lead-free soldering

### Electrical Specifications:

|                                                | Specification                |
|------------------------------------------------|------------------------------|
| Nominal Frequency                              | 22.000000 MHz                |
| Mode of Vibration                              | Fundamental                  |
| Storage Temperature Range                      | -40°C to +85°C               |
| Operating Temperature Range                    | 0°C to +70°C                 |
| Frequency Stability over Operating Temperature | +/-30 ppm                    |
| Frequency Make Tolerance                       | +/-30 ppm @ 25°C +/- 3°C     |
| Resonance Resistance(R)                        | 40 $\Omega$ max.             |
| Shunt Capacitance (Co)                         | 7 pF max                     |
| Drive Level                                    | 100 uW nominal               |
| Load Capacitance-CL                            | 18.0 pF                      |
| Aging                                          | +/-3.0 ppm/year @25°C        |
| Marking                                        | Laser marking                |
| Insulation Resistance                          | 500M $\Omega$ min at DC 100V |

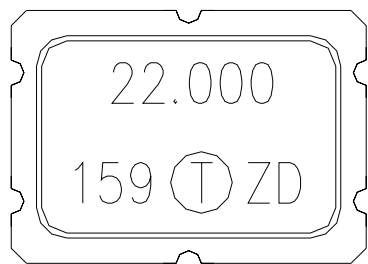
Mechanical Dimensions (mm):



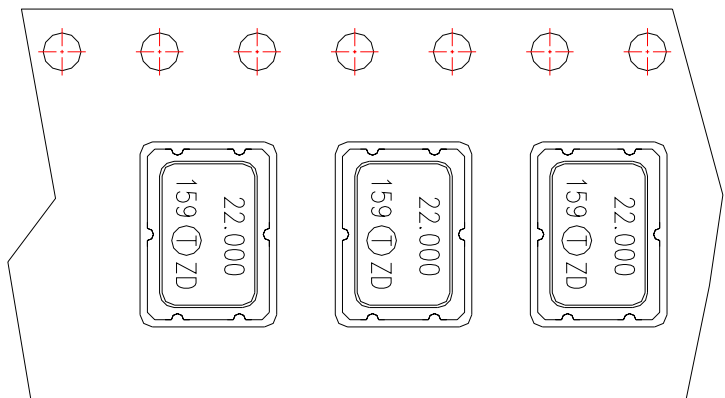
Marking:

First line: Frequency

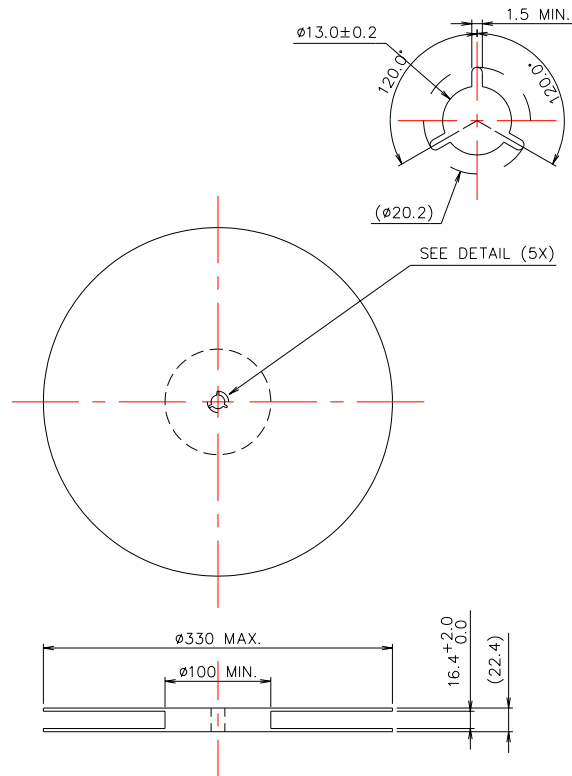
Second line: model number+TST Logo+Crystal Family+Date code



“D” is date code



## Reel Dimensions (mm):



## Tape Dimensions (mm):

