



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: 7/30/2002 (REV. NO:1)

Product Name: SMD 3.5x6 28.4225MHz Crystal Resonator

TST Parts No.: TZ0153A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kelly Huang

Approval by: _____ TF Yang

Date: _____



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SMD 3.5x6 28.4225MHz Crystal Resonator

MODEL NO.: TZ0153A

REV. NO.: 1

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

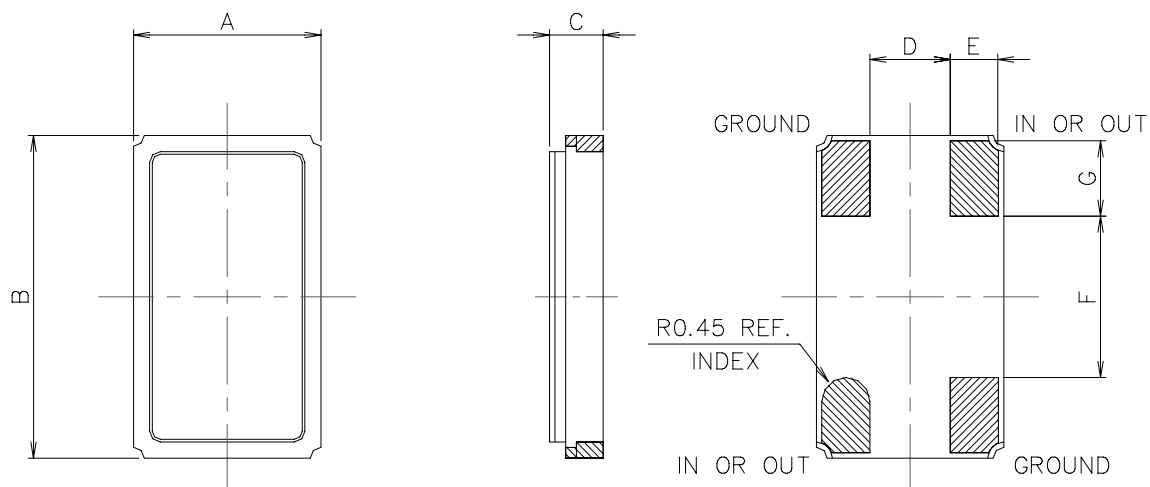
Description and Applications:

Surface mount 3.5mmx6.0mm crystal resonator for use in wireless telecommunications devices, especially for a need of ultra miniature package for mobility.

Electrical Specifications:

TZ0153A	Specification
Nominal Frequency	28.4225 MHz
Mode of Vibration	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-10°C to +60°C
Frequency Stability over Operating Temperature	+/-5 ppm
Frequency Perturbation	+/-1.0ppm
Drive Level	100 uW nominal
Frequency Make Tolerance	±5 ppm @ 23°C +/- 3°C
Resonance Resistance (ESR)	35 Ω max.
Shunt Capacitance (Co)	3 pF max
Load Capacitance-CL	22 pF
Pulling Sensitivity	4.5 ppm/pF min (@22 pF Load)
Aging	±1.0 ppm/year @25°C
Marking	Laser marking

Mechanical Dimensions (mm):

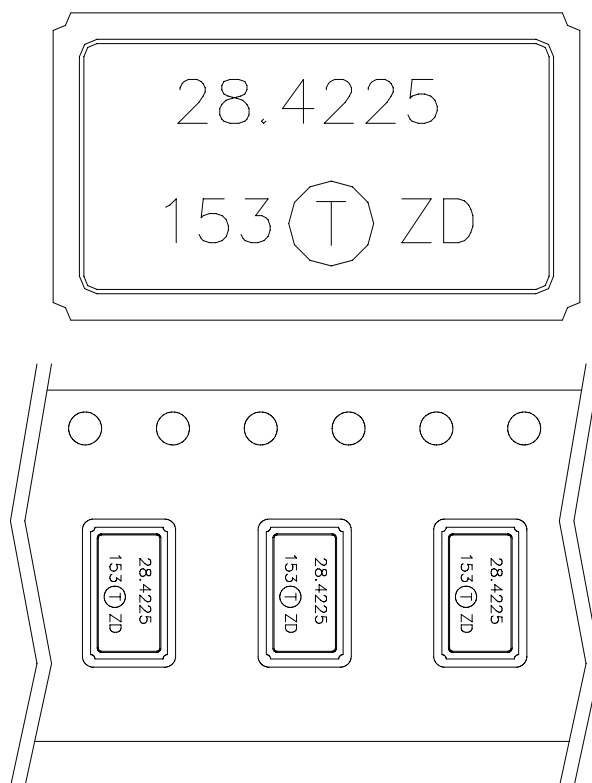


UNIT \ ITEM	A	B	C	D	E	F	G
MM	3.5 ±0.13	6.0 ±0.13	1.0 ±0.16	1.5 ±0.13	0.9 REF.	3.0 ±0.13	1.4 REF.

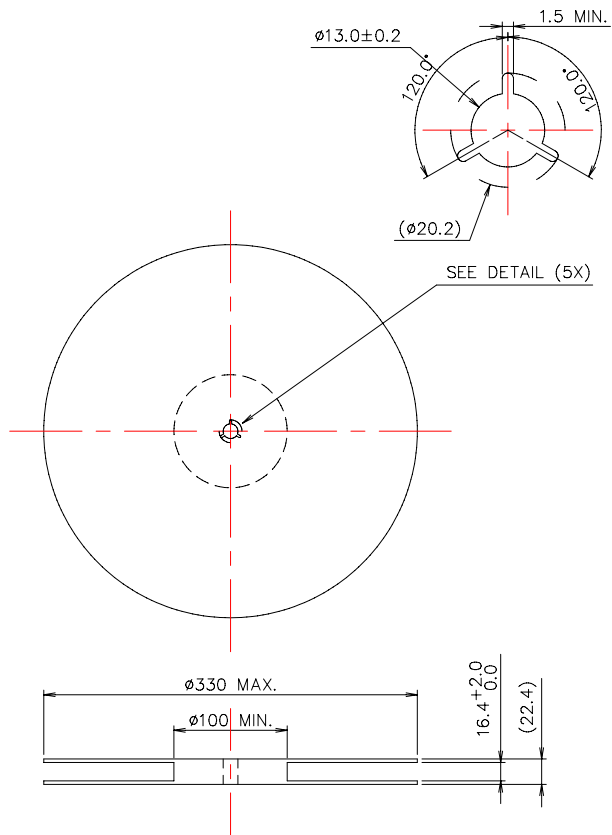
Marking:

First line: Frequency

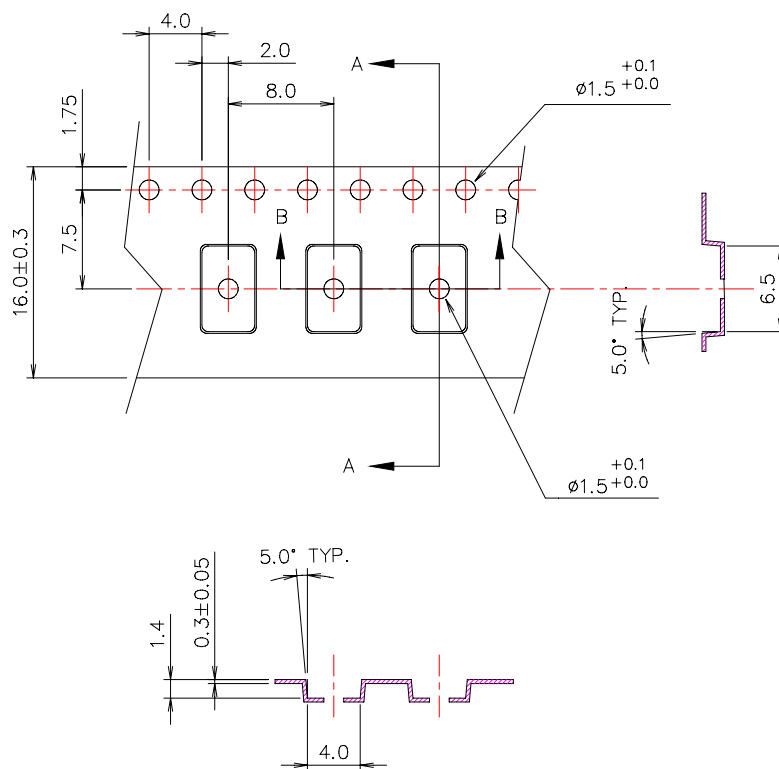
Second line: model number+TST Logo+Crystal Family+Date code



Reel Dimensions (mm):



Tape Dimensions (mm):



Reflow Profile:

1. Preheating shall be fixed at 140 ~ 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.

