



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date: 8/8/2006 (REV. NO: 3)

Product Name: SMD 3.2x2.5 32.0MHz Crystal Unit

TST Parts No.: TZ0375A

Customer Parts No : \_\_\_\_\_

Company: _____
Division: _____
Approved by: _____
Date: _____

Checked by: \_\_\_\_\_ Ann Liu

Approval by: \_\_\_\_\_ TF Yang

Date: \_\_\_\_\_ 8/8/2006



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## SMD 3.2x2.5 32.0MHz Crystal Unit

MODEL NO.: TZ0375A

REV. NO.: 3

### Features:

- Ceramic Seam Weld Package
- Excellent Reliability Performance
- Ultra Miniature Package
- Available to Surface Mount Technology and IR Reflow Process

RoHS Compliant  
Lead free  
Lead-free soldering

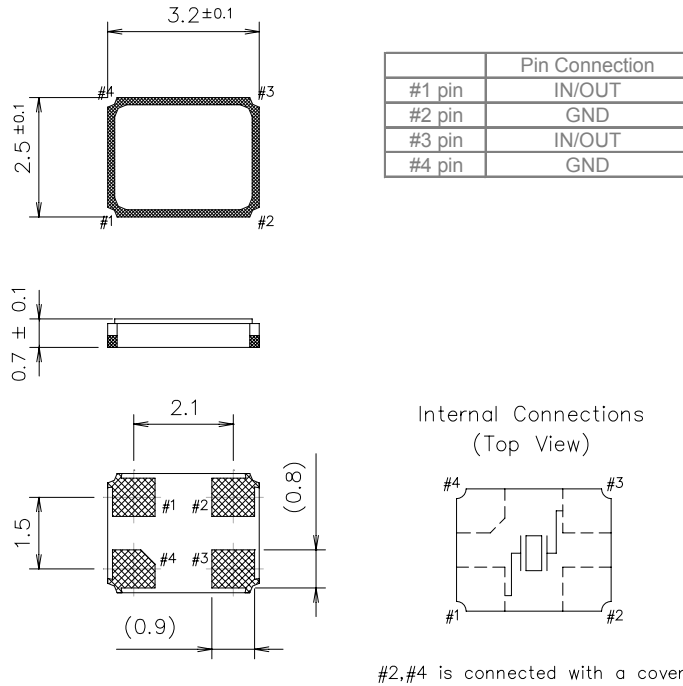
### Description and Applications:

Surface mount 3.2mmx2.5mm crystal unit for use in wireless communications devices, especially for a need of ultra miniature package for mobility.

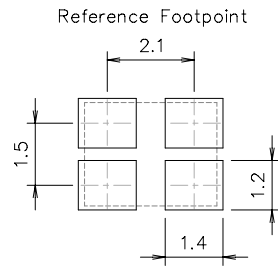
### Electrical Specifications:

TZ0375A	Specification
Nominal Frequency	32.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +70°C
Frequency Stability over Operating Temperature	+/- 10 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/- 10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	50 Ω max.
Nominal Drive Level	10 uW
Shunt Capacitance (Co)	3.0 pF max
Load Capacitance (CL)	12 pF
Insulation Resistance	500 MΩ min./DC 100V
Marking	Laser marking

## Mechanical Dimensions (mm):



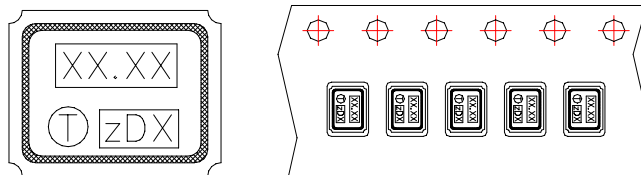
## Recommended Land Pattern: (unit: mm)



## Marking:

Line 1: Frequency (32.00)

Line 2: TST Logo + Crystal Product Code + Date Code



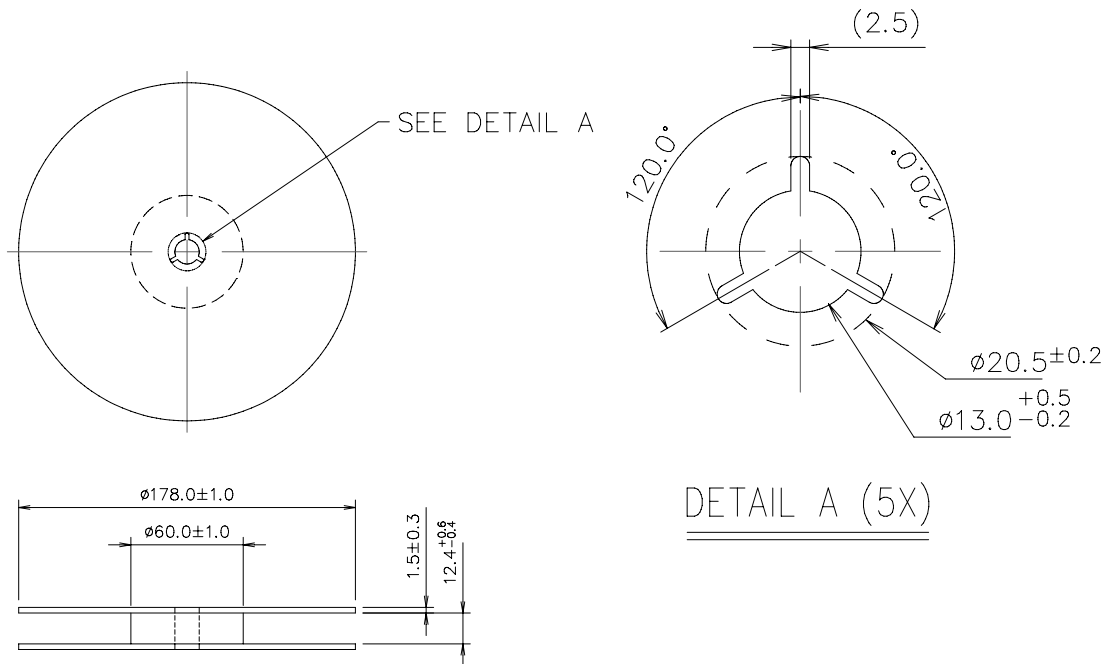
## Product Code Table

Year	2001	2002	2003	2004
	2005	2006	2007	2008
Product Code	Z	z	<u>Z</u>	<u>z</u>

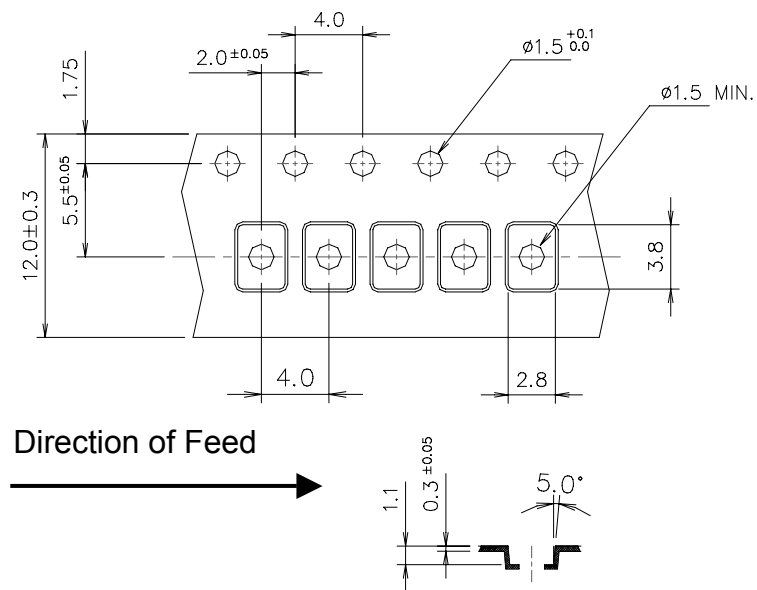
## Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

## Reel Dimensions (mm):



## Tape Dimensions (mm):



### [NOTE]:

1. Unless otherwise specified tolerance on dimension  $\pm 0.1$  mm.
2. Material: conductive polystyrene with color black.
3. 10 pitch cumulative tolerance  $\pm 0.2$  mm.

# Reflow Profile:

