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

Product Name: SMD 3.2x2.5 13.58164MHz Crystal Unit

TST Parts No.: TZ0866A

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 13.58164MHz Crystal Unit

MODEL NO.: TZ0866A REV. NO.: 3

Features:

RoHS Compliant
Lead free
Lead-free soldering

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

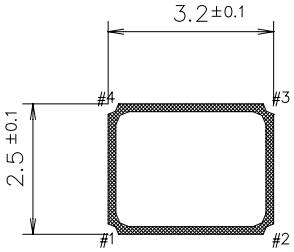
Description and Applications:

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

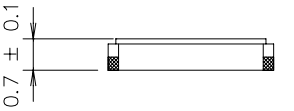
Electrical Specifications:

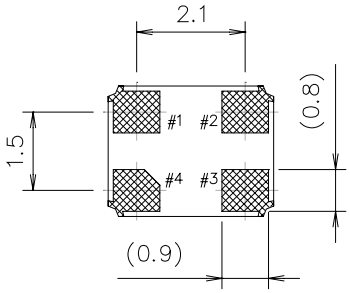
TZ0866A	**Specification**
Nominal Frequency	13.581640 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-10°C to +60°C
Frequency Stability over Operating Temperature range	+/- 10 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/-10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	100 Ω max.
Nominal Drive Level	10 uW
Shunt Capacitance (Co)	3 pF max
Load Capacitance (CL)	20 pF
Marking	Laser Marking

Mechanical Dimensions (mm):

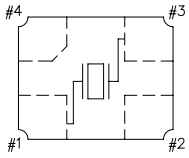


	Pin Connection
#1 pin	IN/OUT
#2 pin	GND
#3 pin	IN/OUT
#4 pin	GND





Internal Connections
(Top View)

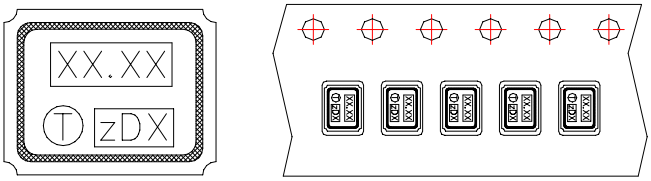


#2,#4 is connected with a cover

Marking:

Line 1: Frequency (13.58)

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



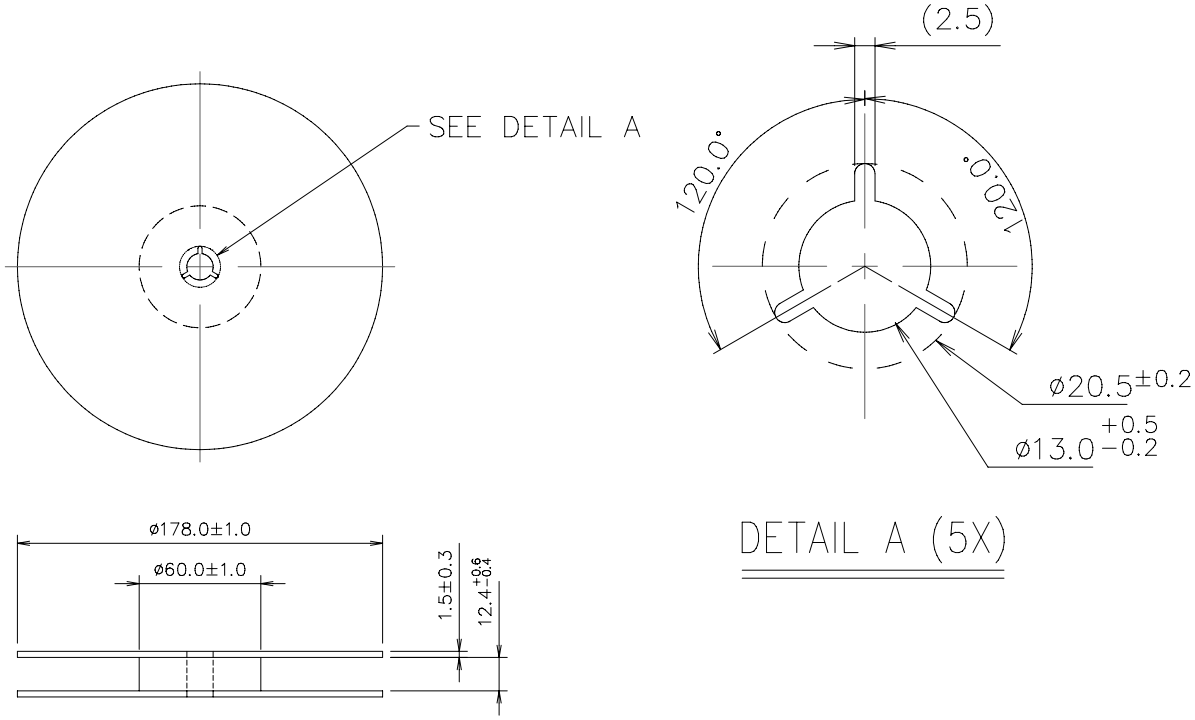
Product Code Table

Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	Z	z	Z	z

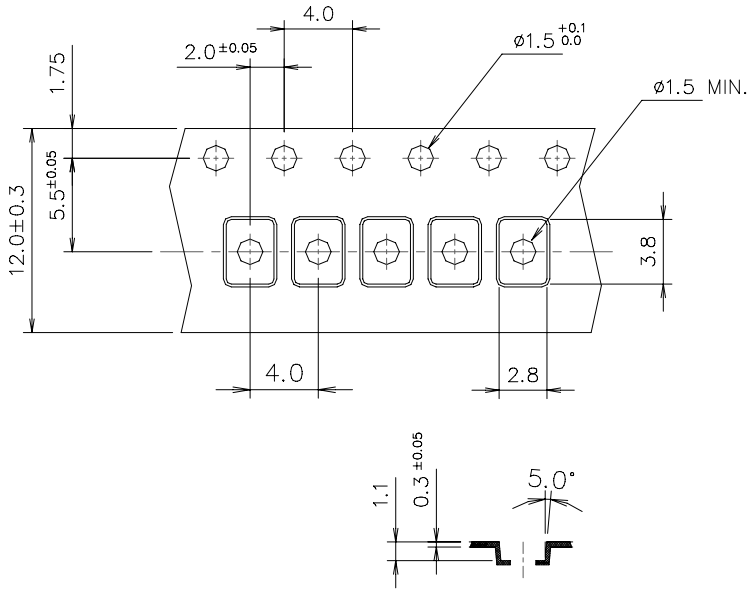
Date Code Table

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):

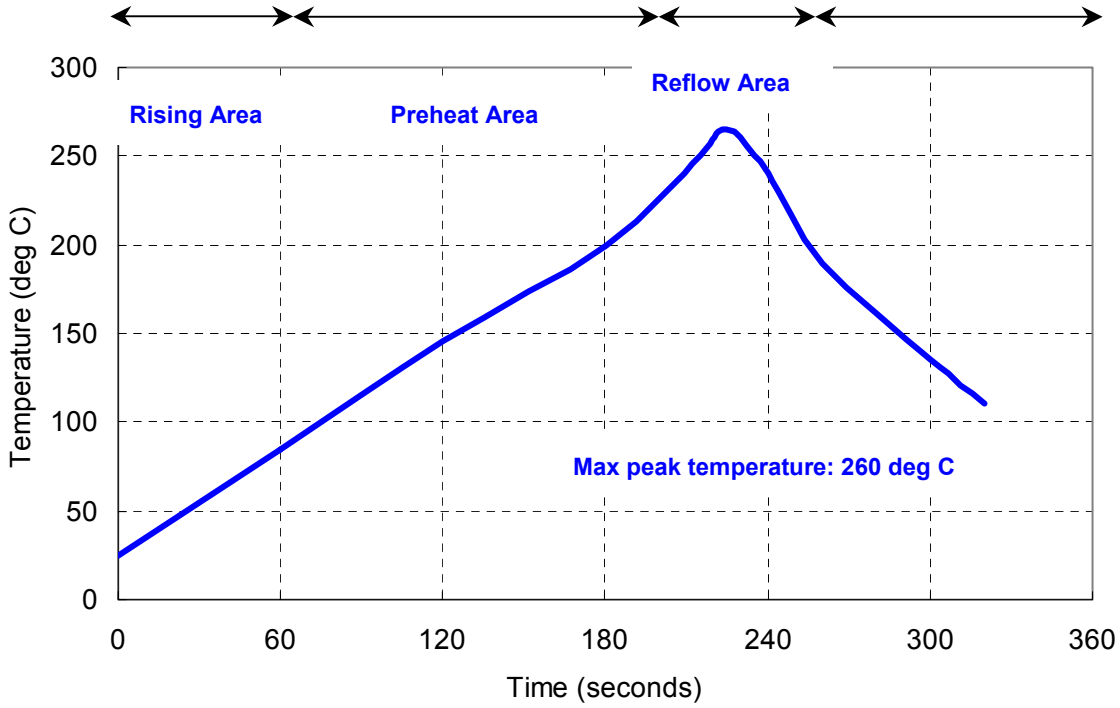


Tape Dimensions (mm):



[NOTE]:

1. Unless otherwise specified tolerance on dimension +/-0.1 mm.
2. Material: conductive polystyrene with color black.
3. 10 pitch cumulative tolerance +/-0.2 mm.

Packing Quantity: 1K pcs maximum per reel

Reflow Profile: