



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: 11/12/2004 (REV. NO: 1)

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

TST Parts No.: TZ0468A

Customer Parts No. : _____

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

Checked by: _____ Kelly Huang

Approval by: _____ TF Yang

Date: _____ 11/12/2004



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SMD 5.0x3.2 26.0MHz Crystal Unit

MODEL NO.: TZ0468A

REV. NO.: 1

Features:

- Surface Mount Seam Weld Package
- Excellent Reliability Performance
- Good Frequency Perturbation and Stability over temperature

RoHS Compliant
Lead free
Lead-free soldering

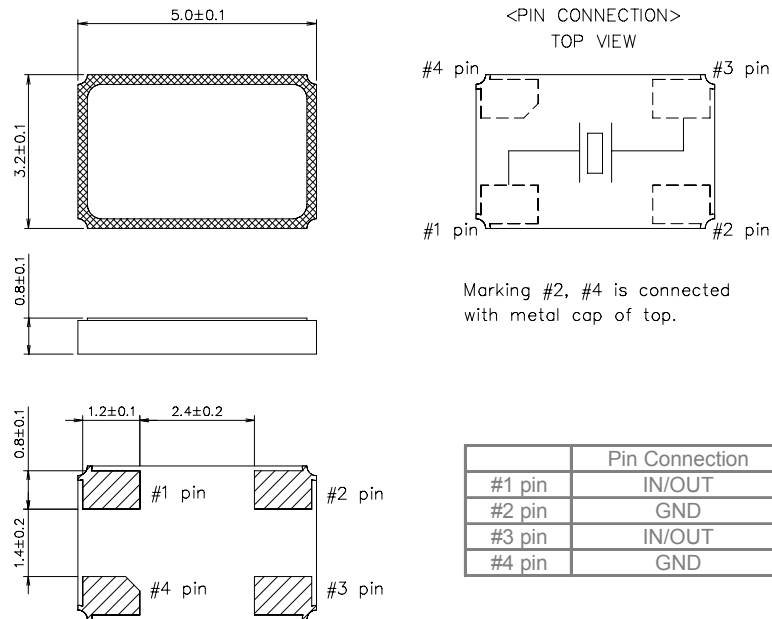
Description and Applications:

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:

TZ0468A	Specification
Nominal Frequency	26.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +75°C
Frequency Stability over Operating Temperature	+/-10 ppm (referred to the value at 25°C)
Frequency Perturbation	+/-1.0 ppm
Frequency Make Tolerance (FL)	+/-10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	40 Ω max.
Nominal Drive Level	10 μ W
Delta R	3.0 Ω max (0.01~100 μ W/20 points as below) 0.01,0.05,0.1,0.4,0.8,1,5,10,50,100,100,50,10,5,1 ,0.8,0.4,0.1,0.05,0.01 μ W
Shunt Capacitance (Co)	2.0 pF max
Trim Sensitivity	28 ppm/pF typical @ CL 8pF
Load Capacitance (CL)	8 pF
Insulation Resistance	500 M Ω min./DC 100V
Aging	+/-1.0 ppm/year @25°C
Marking	Laser marking

Mechanical Dimensions (mm):



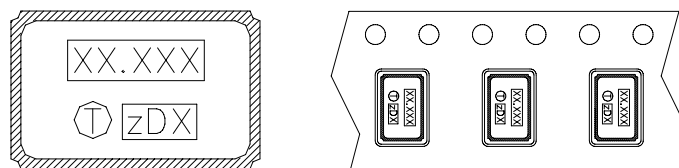
Recommended Land Pattern: (unit: mm)



Marking:

Line 1: Frequency (26.000)

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



Product Code Table

Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	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.

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.

