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: 6/5/2007 (REV. NO: 1)

Product Name: SMD 2.5x2.0mm 12.288MHz Crystal Oscillator

TST Parts No.: TW0275A

Customer Parts No. :_____

Company:_____

Division:_____

Approved by:_____

Date:_____

Checked by:_____Ryan Huang_____

Approval by:_____Robert Chang_____

Date:_____6/5/2007_____

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SMD 2.5x2.0 12.288MHz Crystal Oscillator

MODEL NO.: TW0275A 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

Application:

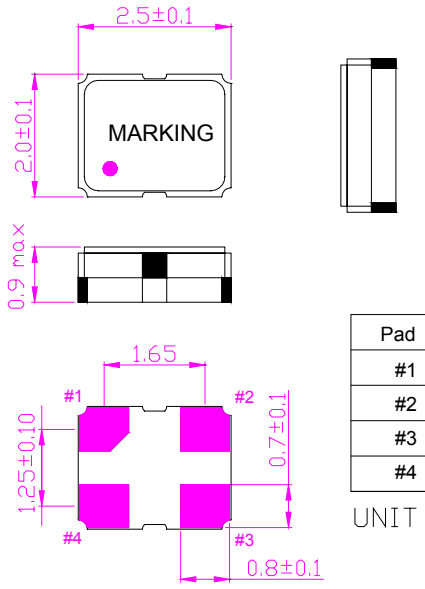
- 3.3 V Supply Voltage Operation / Complementary CMOS Output
- Option-able stand-by function for output (Tri-state output).

Electrical Characteristics:

TW0275A	**Specifications**
Nominal Frequency, Fo	12.288000 MHz
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-10°C to +60°C
Power Supply Voltage, Vcc	3.3V +/- 5%
Load	15pF
“0” Level “1” Level	0.33 V max 2.97 V min
Power Supply Current, Icc	12 mA max
Frequency Accuracy[1]	+/-25 ppm max
Duty Cycle	45% ~ 55%
Rise Time (10% -> 90% of final RF level in Vp-p) Fall Time (90% -> 10% of final RF level in Vp-p)	10 nsec max. 10 nsec max.
Enable/Disable Function	PIN 1: High or Open, PIN 3:Enable PIN 1: Low, PIN 3:Disable

#Note 1: Frequency accuracy includes 25C tolerance, operating temperature range -10 to 60 deg C, aging and voltage or load change

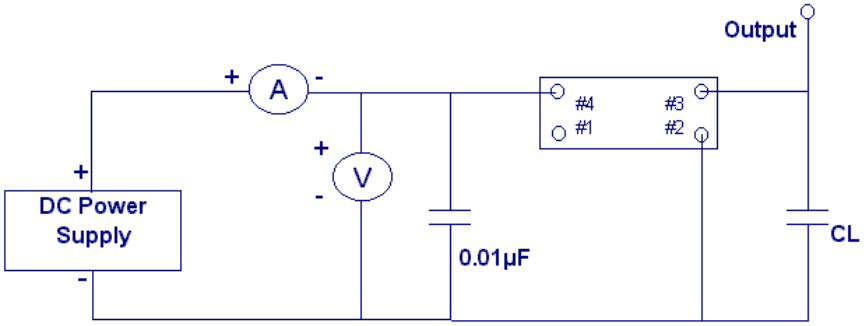
Mechanical Dimensions: (Unit: mm)



Pad	Connection
#1	Tri-State
#2	GND
#3	Output
#4	Vdd

UNIT : mm

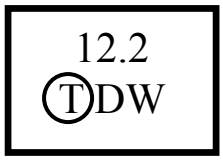
Test Circuit:



Marking:

Line 1: Frequency (ex. 12.288M = 12.2)

Line 2:ⓉDW (TST logo + Data Code + TST Internal Code)



Product Internal Code Table

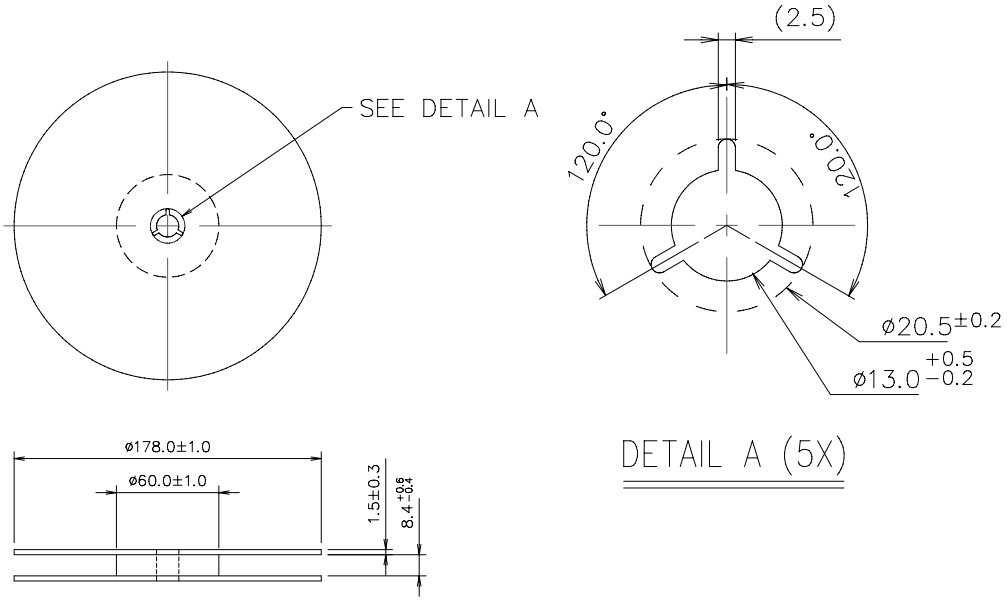
Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	W	w	W	w

Date Code Table

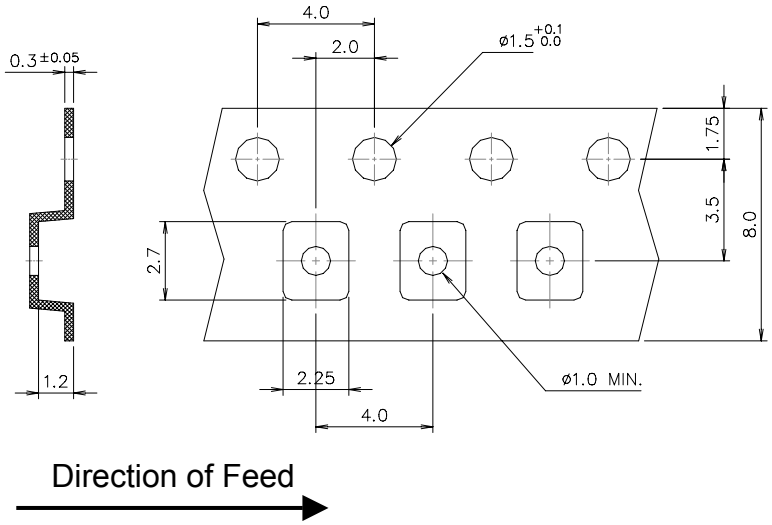
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

Packing:

- **PACKING QUANTITY: 1K Pcs / Reel**
- **Reel Dimension (Unit: mm)**



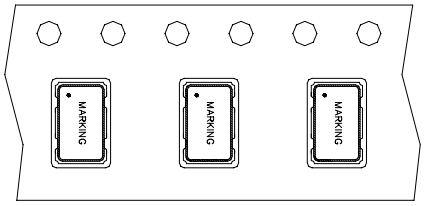
- **Tape Dimension (Unit: mm)**



[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.
4. Packing Direction: dot or the logo of marking should be close to the hole of tape.

- **PACKING DIRECTION:**



Reflow Profile:

