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Approval Sheet For Product Specification

Issued Date: 3/29/2007 (REV. NO: 4)

Product Name: SMD 5.0x3.2 40MHz Crystal Oscillator

TST Parts No.: TW0151A

Customer Parts No. : _____

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

Checked by: _____ Ryan Huang

Approval by: _____ Robert Chang

Date: _____ 3/29/2007



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SMD 5.0x3.2 40MHz Crystal Oscillator

MODEL NO.: TW0151A

REV. NO: 4

Features:

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

RoHS Compliant
Lead free
Lead-free soldering

Application:

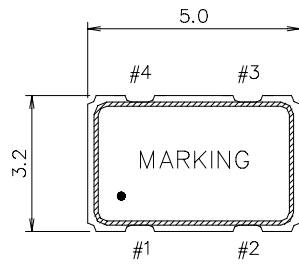
- 2.5 V Supply Voltage Operation / Complementary CMOS Output
- Option-able stand-by function for output (Tri-state output).

Electrical Characteristics:

TW0151A	Specifications
Nominal Frequency, Fo	40.000000 MHz
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-10°C to +70°C
Power Supply Voltage, Vcc	2.5 V +/- 5%
Load	10KΩ // 15pF
“0” Level “1” Level	0.25 V max 2.25 V min
Power Supply Current, Icc	4 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)	5 nsec max. 5 nsec max
Enable/Disable Function	PIN 1: High or Open, PIN 3:Enable PIN 1: Low, PIN 3:Disable

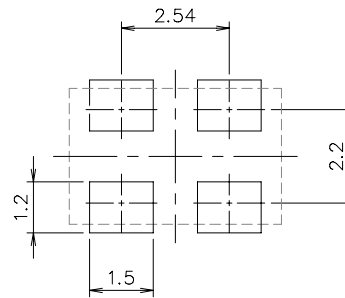
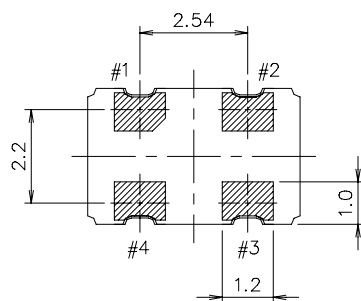
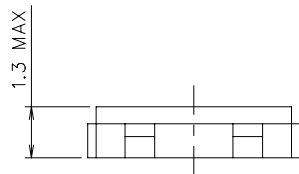
#Note 1: Frequency accuracy includes 25C tolerance, operating temperature range -10 to 70 deg C, aging and voltage or load change

Mechanical Dimensions: (Unit: mm)



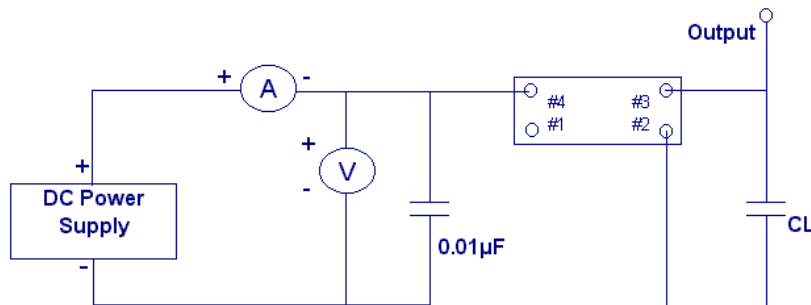
UNIT: mm

PIN#	FUNCTION
1	NO CONNECT/3-STATE
2	CIRCUIT AND COVER GROUND
3	OUTPUT
4	VDD



Recommended Soldering Pattern

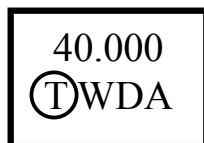
Test Circuit:



Marking:

Line 1: 40.000(Frequency)

Line 2: $\text{\textcircled{T}}$ WDA (TST logo + Product Code + Data Code + TST Internal Code)



Product Code Table

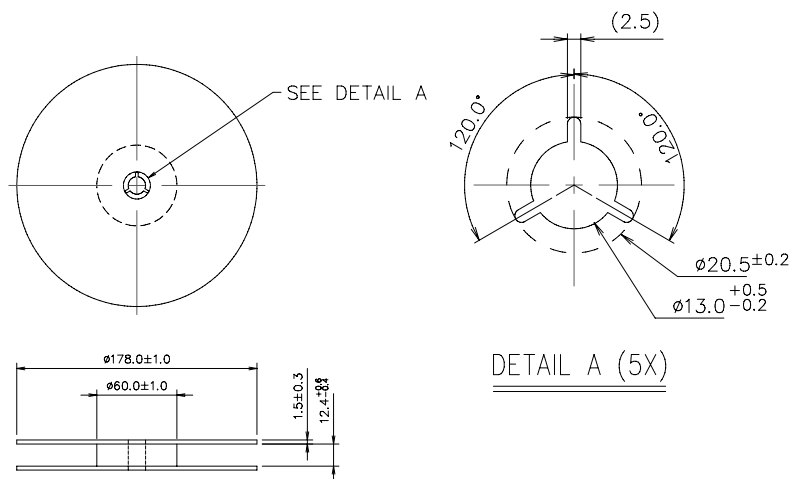
Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	W	w	<u>W</u>	<u>w</u>

Date Code Table

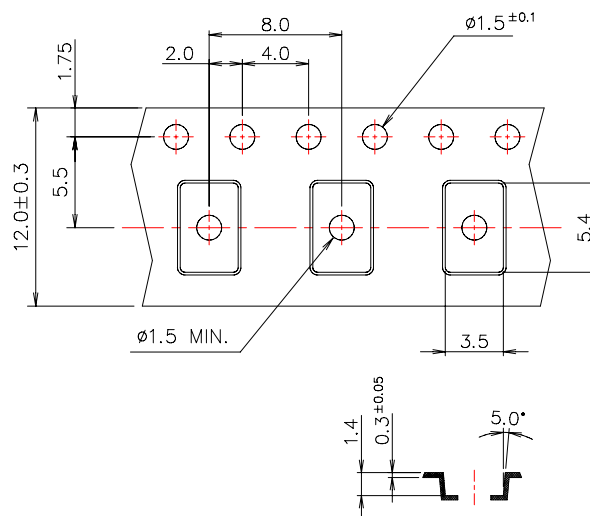
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

Packing:

1. Reel Dimension (Unit: mm)



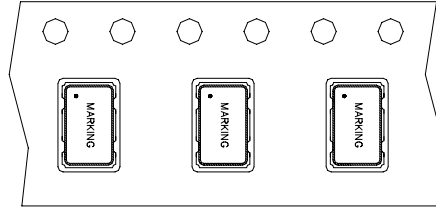
2. Tape Dimension (Unit: mm)



[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.

3. PACKING DIRECTION:



Reflow Profile:

