



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date: 03/03/2003

Product Name: SMD Clock Oscillator 36.000 MHz

TST Parts No.: TW0108A

Customer Parts No.: _____

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

Checked by: _____ Robert Chang

Approval by: _____ T.F. Yang

Date: _____ 2003/03/03



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SMD Clock Oscillator 36.000MHz

MODEL NO.: TW0108A

REV. NO.: 1

A. FEATURES:

1. Ultra small package
2. Excellent for high-density packaging.

RoHS Compliant
Lead free
Lead-free soldering

B. MAXIMUM RATING:

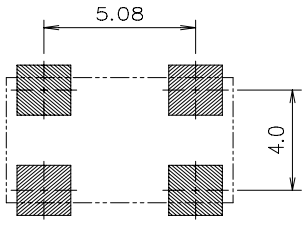
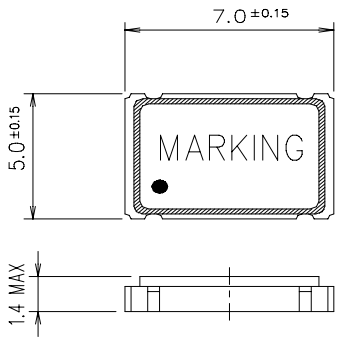
1. DC Voltage: 12 VDC.
2. Storage Temperature: -55 °C to +125 °C.
3. Operating Temperature:-10 °C to +70 °C.

C. ELECTRICAL CHARACTERISTICS:

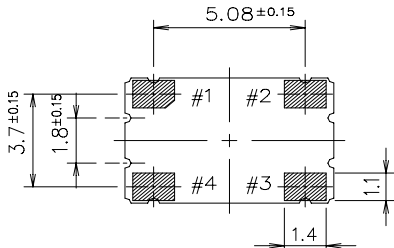
Characteristics	Units	Minimum	Typical	Maximum
Center Frequency	MHz		36.0000	
Frequency Stability (#note 1)	ppm	-25	-	25
Input Voltage (Operating VDD)	VDC	-	3.3+/-10%	-
Input Current	mA	-	-	12
Output				
Load	pF	-	15	-
"0" Level	VDC	-	-	0.33
"1" Level	VDC	2.97	-	-
Symmetry (TW/T*100%) Duty Cycle	%	40%	-	60%
Rise Time (10%->90% VDD)	nSec	-	-	10
Fall Time (90%->10% VDD)	nSec	-	-	10
Start-Up Time	mSec	-	-	10
Enable/Disable Function		PIN 1: High or Open, PIN 3:Enable PIN 1: Low, PIN 3:Disable		
Package size		SMD5.0X7.0X1.4mm		

#Note 1: Frequency stability includes 25°C tolerance, operating temperature range, aging and voltage or load change.

D. OUTLINE DRAWING: (Unit: mm)



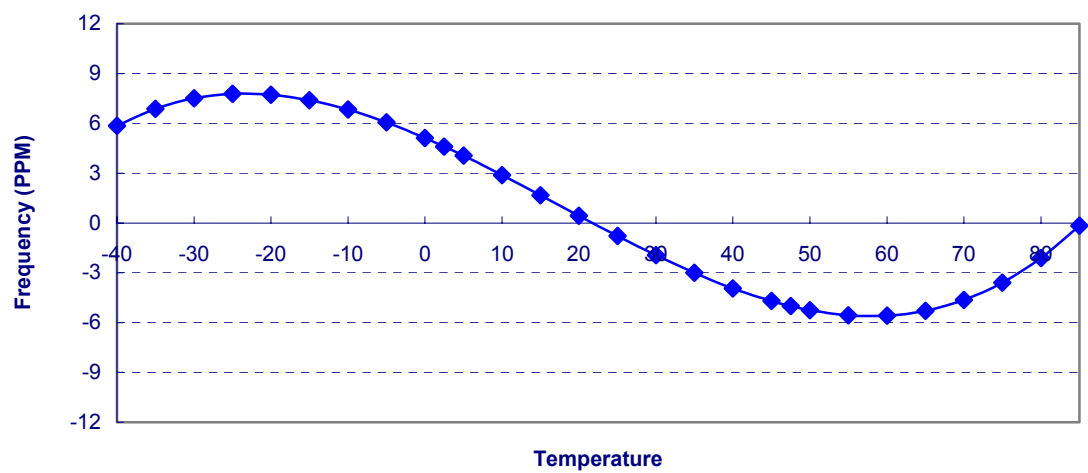
Recommended Soldering Pattern



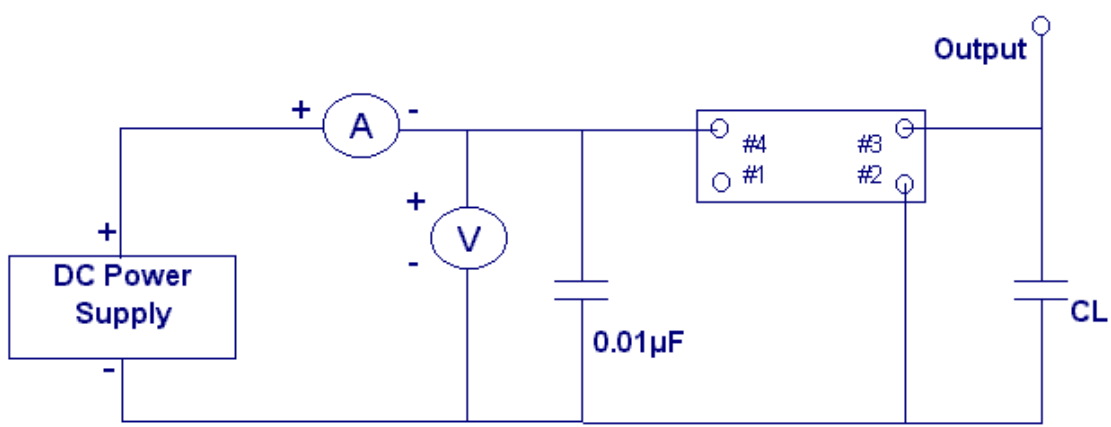
UNIT : mm

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

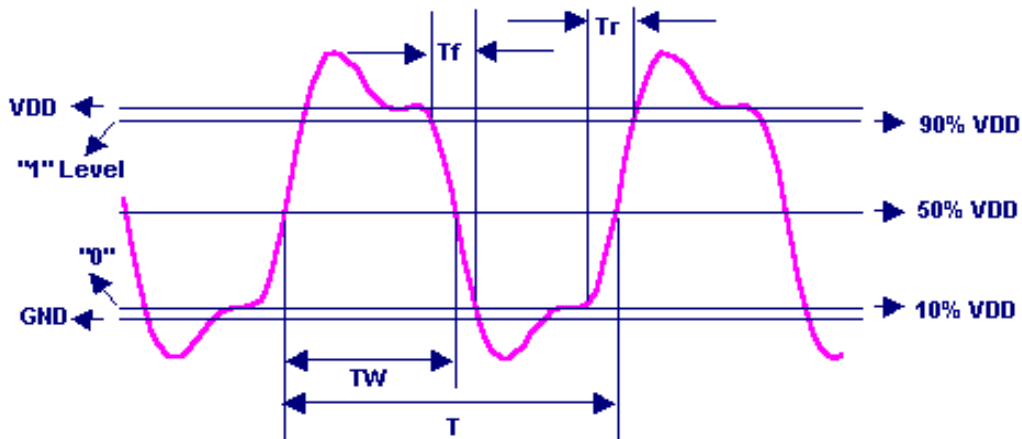
E. FREQUENCY STABILITY OVER TEMPERATURE (TYPICAL):



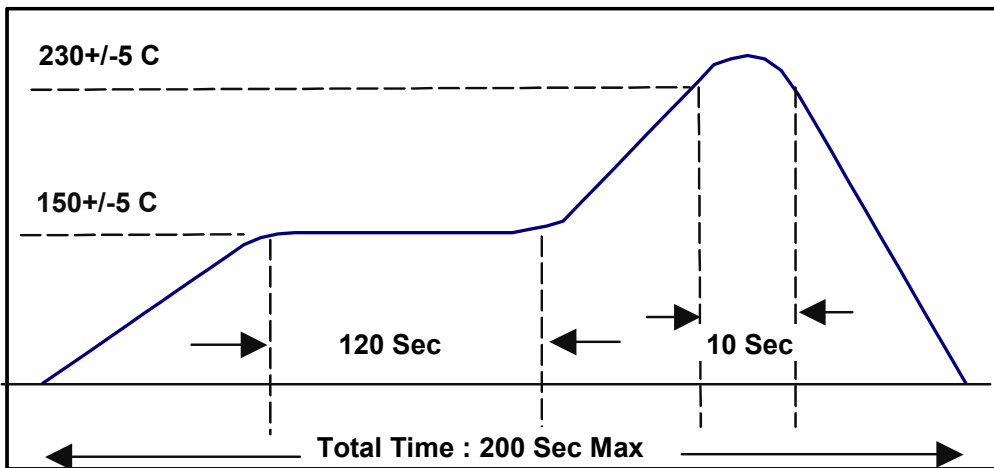
F. TEST CIRCUIT:



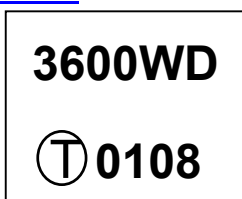
G. OUTPUT WAVEFORM (TYPICAL):



H. SOLDERING REFLOW PROFILE:



I. MARKING:



Where W stand for product code and D for date code

1. Product Code Table:

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

