



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: Apr 17 2002

Product Name: SMD Clock Oscillator 44MHz

TST Parts No.: TW0118A

Customer Parts No.: _____

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

Checked by: _____ Yian Chen

Approval by: _____ T.F. Yang

Date: _____ 4/17/02



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SMD Clock Oscillator 44.0 MHz

MODEL NO.: TW0118A

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:

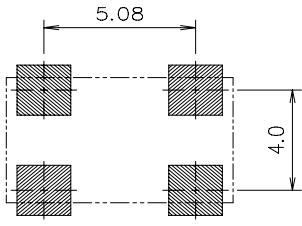
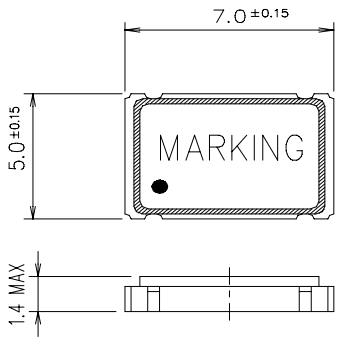
1. DC Voltage: 12 VDC.
2. Storage Temperature: -55 °C to 125 °C.
3. Operating Temperature:-0 °C to 70 °C.

C. ELECTRICAL CHARACTERISTICS:

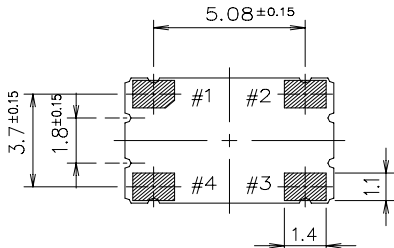
Characteristics	Units	Minimum	Typical	Maximum
Center Frequency	MHz		44.000	
Frequency Stability (#note 1)	PPM	-25	-	25
Input Voltage (Operating VDD)	VDC	-	2.85+/-10%	-
Input Current	mA	-	-	20
Output				
Load	pF	-	15	-
"0" Level	VDC	-	-	0.285
"1" Level	VDC	2.565	-	-
Symmetry (TW/T*100%) Duty Cycle	%	40%	-	60%
Rise Time (10%->90% VDD)	nSec	-	-	10
Fall Time (90%->10% VDD)	nSec	-	-	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 25C tolerance, operating temperature range, aging and voltage or load change.

D. OUTLINE DRAWING: (Unit: mm)



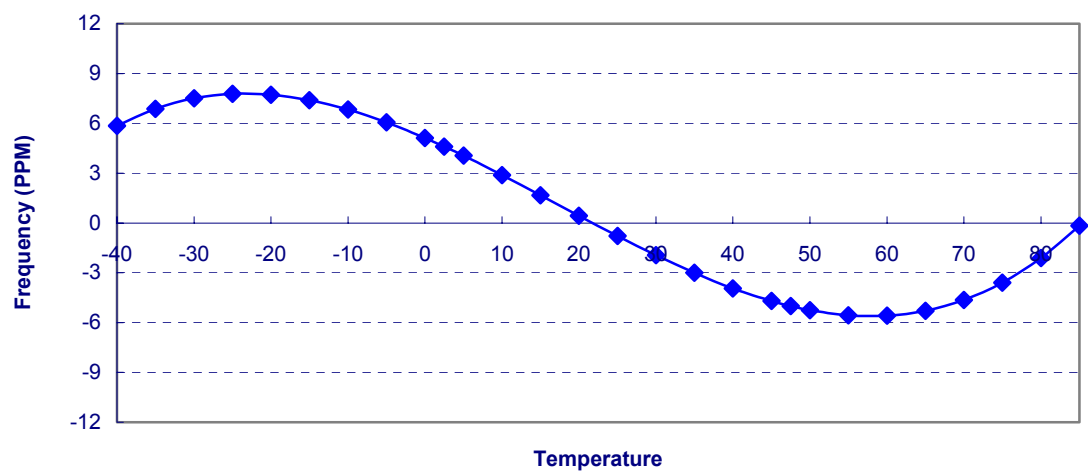
Recommended Soldering Pattern



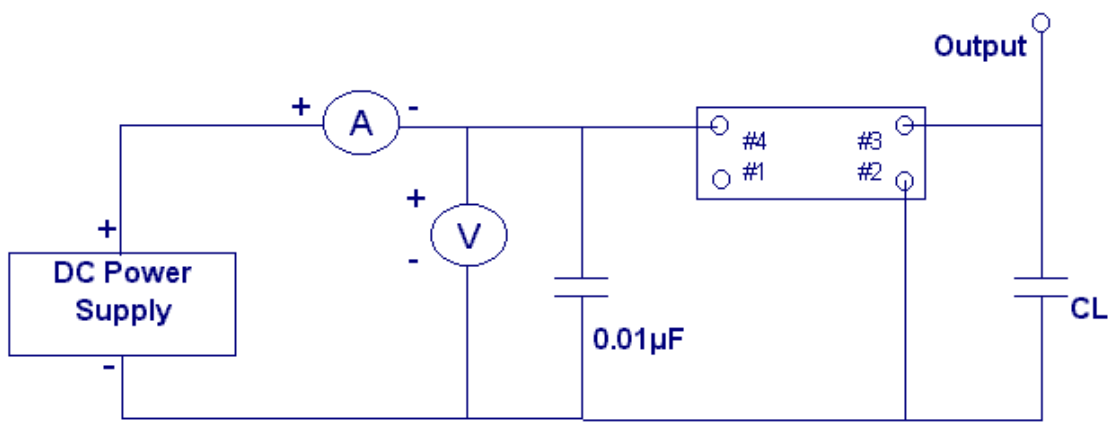
UNIT : mm

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

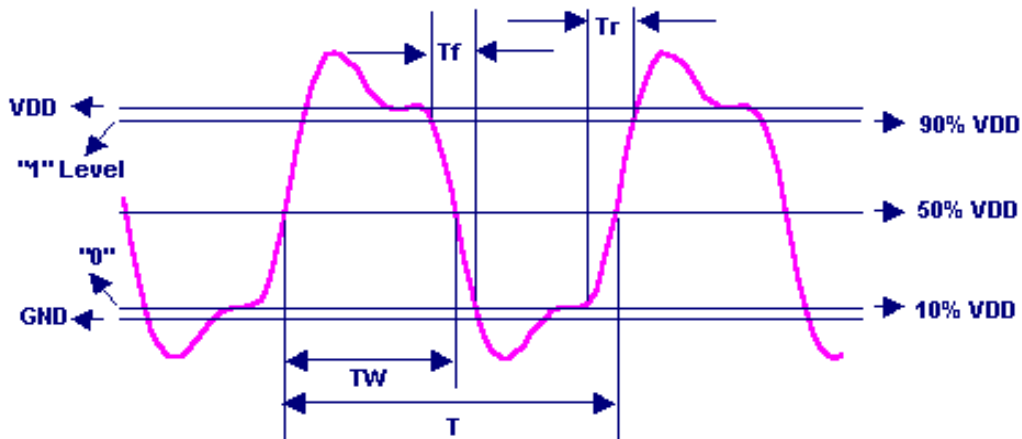
E. FREQUENCY STABILITY OVER TEMPERATURE (TYPICAL):



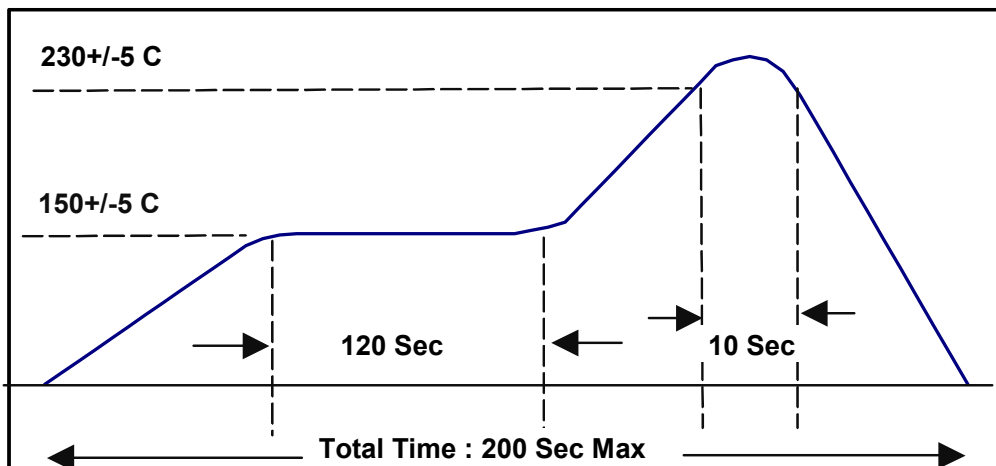
F. TEST CIRCUIT:



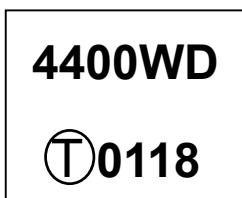
G. OUTPUT WAVEFORM (TYPICAL):



H. SOLDERING REFLOW PROFILE:



I. MARKING:



Where

“4400” means Frequency

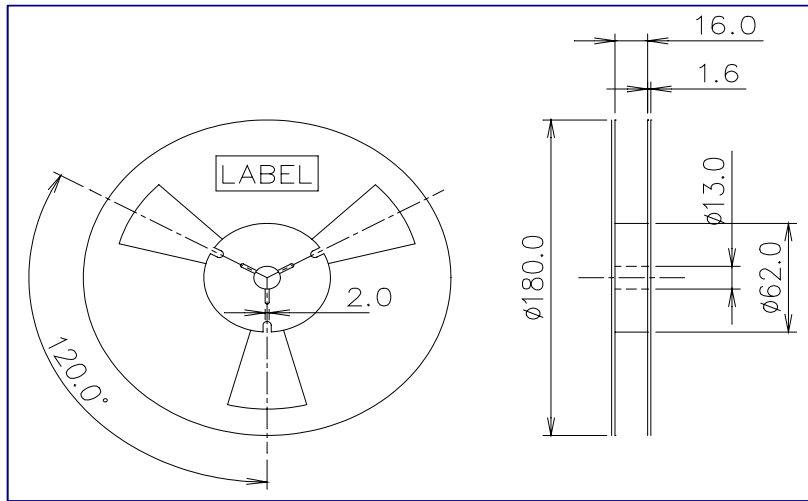
“D” stands for date code

“W” is crystal oscillator

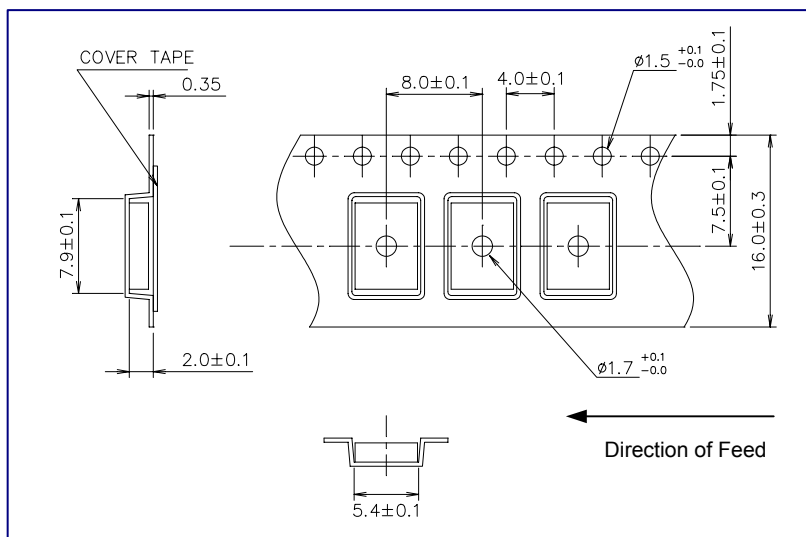
“0118” is the Part Number (TW0118A)

J. PACKING:

1. REEL DIMENSION (Unit: mm)



2. TAPE DIMENSION (Unit: mm)



3. PACKING DIRECTION

The dot or the logo of marking should be close to the hole of tape.