



TAI-SAW TECHNOLOGY CO., LTD.

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

Approval Sheet For Product Specification

Issued Date: 2/6/2004 (REV. NO: 1)

Product Name: SMD 3.2x2.5 19.2MHz VCTCXO

TST Parts No.: TX0131A

Customer Parts No.: _____

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

Checked by: _____ CC Hsu

Approval by: _____ TF Yang

Date: _____ 2/6/2004



TAI-SAW TECHNOLOGY CO., LTD.

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SMD 3.2x2.5 19.2MHz VCTCXO

MODEL NO.: TX0131A

REV. NO.: 1

Features:

- Ultra Miniature SMD Package
- Good Frequency Stability
- Good Phase Noise Response

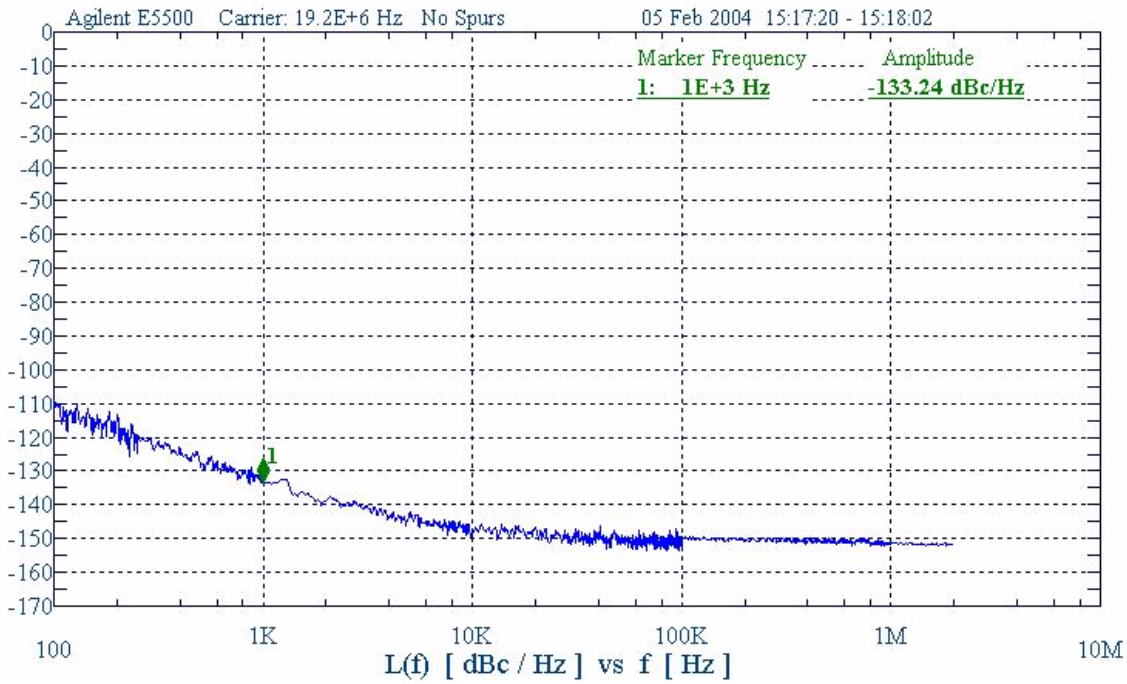
Description and Applications:

Surface mount 3.2mmx2.5mm VCTCXO for use in wireless communications devices

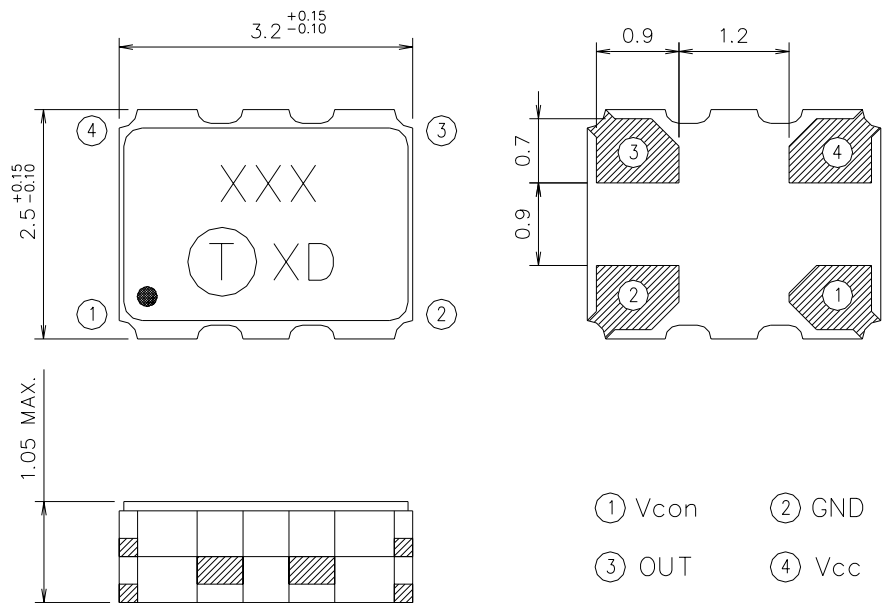
Electrical Specifications:

TX0131A	Specifications
Nominal Frequency, Fo	19.200000 MHz
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +75°C
Power Supply Voltage, Vcc	2.8 V
Output Voltage with Load 10pF//10KΩ, Vout	0.8 Vp-p min
Output Waveform	Clipped Sinewave
Power Supply Current, Icc	2.0 mA max
Control Voltage, Vcon	1.4 +/- 1.0 V
DC Terminal Input Impedance	100K ohms min
Frequency Tolerance (Vcon=1.4V) after Two Reflows	+/- 1.5 ppm max @ 25°C +/- 3°C
Frequency Stability	
a. Vs. Temperature (-20~75°C)	+/- 2.5 ppm
b. Vs. Load varied 10pF//10KΩ+/-10%	+/- 0.2 ppm
c. Vs. Supply Voltage varied 2.8+/-5%	+/- 0.2 ppm
Vcon Frequency Control Range (1.4+/-1.0 V)	+/-8 ~ +/-14 ppm
Start Up Time (90% of final RF level in Vp-p)	2.0 msec max.
Harmonics	-5.0 dBc max
SSB Phase Noise (@1KHz Carrier Offset)	-130 dBc/Hz max

Phase Noise Plot:



Mechanical Dimensions (mm):



Marking:

Line 1: 131 (VCTCXO PN)

Line 2: TST Logo + Product Code + Date Code

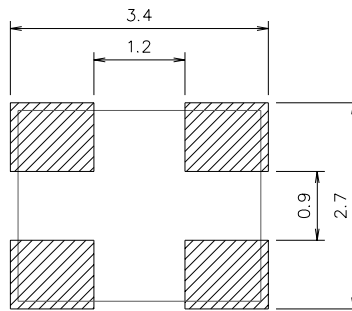
Product Code Table

Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	X	x	<u>X</u>	<u>x</u>

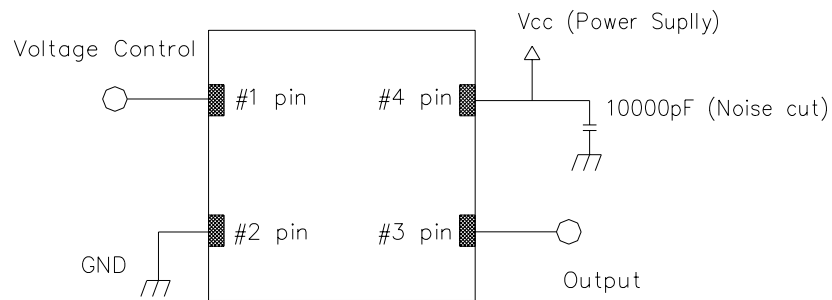
Date Code Table

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

Recommended Land Pattern



Recommended Circuit



Recommended Reflow Soldering Condition

