

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

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## Product Specifications Approval Sheet

Product Name: TCXO	SMD 2.0x1	1.6 26.0MHz	
ΓST Part No.: TX0408	BCB		
Customer Part No.:			_
Company:			
Division:			
Approved by:			_
Date:			
		, 1	
Checked by: CC	Hsu	C.Ch	
Approved by: <u>Ke</u>	lly Huang	C. C. Hu Kully Huang	
Date:08/		7	

- 1. Customer signed back is required before TST can proceed with sample build and receive orders.
- 2. Orders received without customer signed back will be regarded as agreement on the specifications.
- 3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



MODEL NO.: TX0408CB REV. NO.: 1

#### Revise:

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Revised by
1	N/A	Initial release	08/12/20'	N/A	C.C. Hsu



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#### TCXO SMD 2.0x1.6 26.0MHz

MODEL NO.: TX0408CB REV. NO.: 1

#### Features:

- Ultra Miniature SMD Package
- Good Frequency Stability
- Good Phase Noise Response
- Moisture Sensitivity Level (MSL): Level-1



### **Description and Applications:**

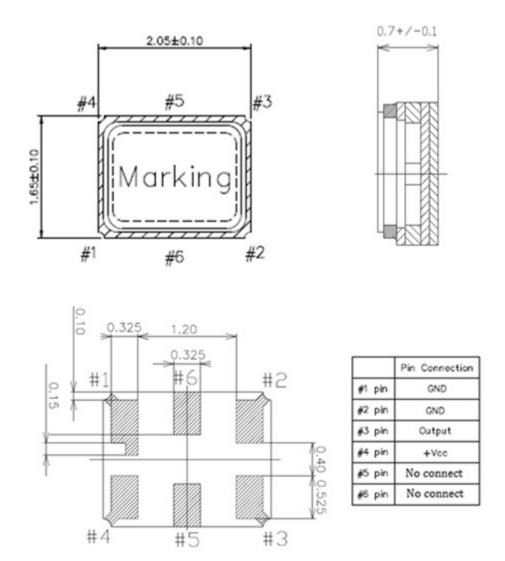
Surface mount 2.0mmx1.6mm TCXO for use in wireless communications devices

#### **Electrical Specifications:**

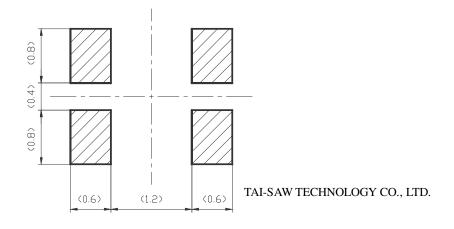
TX0408CB	Specifications					
Nominal Frequency, Fo	26.0 MHz					
Storage Temperature Range	-40°C to +85°C					
Operating Temperature Range	-40°C to +85°C					
Power Supply Voltage, Vcc	1.8~3.6 V (Nominal to 1.8V)					
Output Voltage with Load 10pF//10KΩ, Vout	0.8 Vp-p min					
Power Supply Current, Icc	1.5 mA max					
Frequency Tolerance as received	+/- 1.0 ppm max @ 25°C +/- 2°C					
Frequency Tolerance after reflow	+/- 2.0 ppm max @ 25°C +/- 2°C					
Frequency Stability a. Vs. Temperature (-30~85°C)  Vs. Temperature (-40~-30°C) b. Vs. Load varied 10pF//10KΩ+/-10% c. Vs. Supply Voltage varied Vcc+/-5%	+/- 0.5 ppm reference to the middle point between minimum and maximum frequency value +/- 3.0 ppm +/- 0.2 ppm +/- 0.2 ppm					
Start Up Time (90% of final RF level in Vp-p)	2.0 msec max.					
Static temperature hysteresis	+/- 0.6 ppm max.					
Aging	+/-1.0 ppm/ first year @25°C					
Harmonics	-8.0 dBc max					

SSB Phase Noise (@1Hz Carrier Offset)	-54 dBc/Hz max
(@10Hz Carrier Offset)	-84 dBc/Hz max
(@100Hz Carrier Offset)	-108 dBc/Hz max
(@1kHz Carrier Offset)	-132 dBc/Hz max
(@10kHz Carrier Offset)	-147 dBc/Hz max
(@100kHz Carrier Offset)	-149 dBc/Hz max
Marking	Laser marking

## Mechanical Dimensions (mm):



## Recommended Land Pattern: (unit: mm)



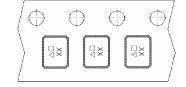
**TST DCC**Release document

## Marking:

Line 1: Frequency (26)

Line 2: Product Code : ☐ (☐ is TST internal tracking code) + Date Code of Year/Month : ▽

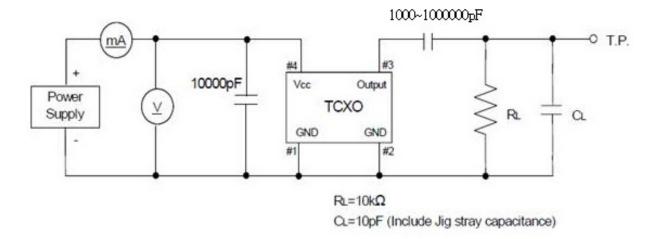




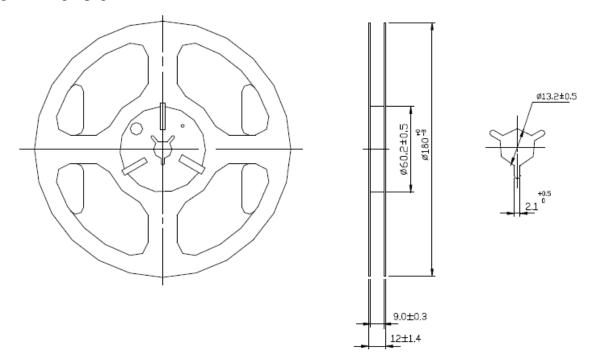
 $\nabla$ : Date Code Table: Year/Month

Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2017	n	р	q	r	s	t	u	٧	w	х	у	Z
2018	Α	В	С	D	Е	F	G	Н	J	K	L	М
2019	N	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z
2020	а	b	С	d	е	f	g	h	i	j	k	m
2021	n	р	q	r	s	t	u	V	w	х	у	Z

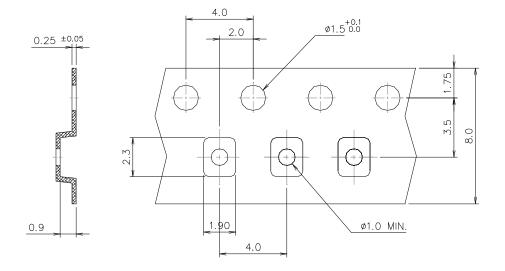
#### Recommended Circuit



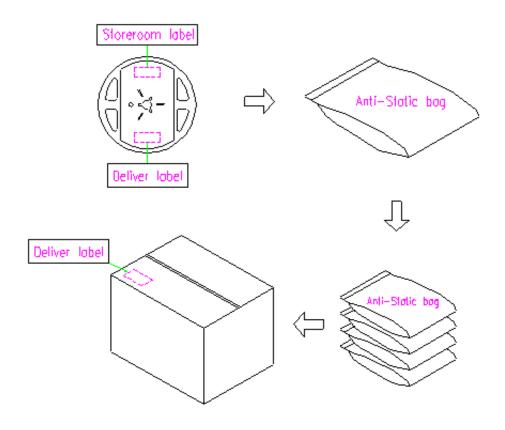
#### **Reel Dimension**



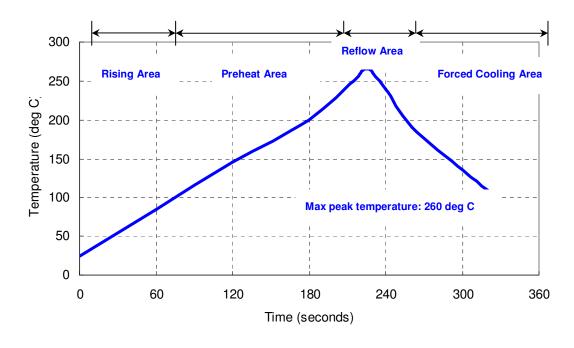
## Tape Dimensions (mm)



## Packing Quantity/Packing: 3K pcs maximum per reel



#### Reflow Profile:



#### Notes of the Usage:

- 1. Touch the solder iron at 260+/-5 deg C onto the leads for 10+/-2 sec max or touch the solder at 350+/-5 deg C onto the leads for 3+/-0.5 sec.
- 2. In the customer's reflow process, if it will remain some mechanical stress at the soldering terminals, also make some cracks on the soldering termination. Some cracks will cause open or short circuit and cause of thermal increasing or smoking. Don't make any excess mechanical stress to soldering points.
- 3. In case of giving a heavy shock to the products, it may make an open or short circuit and cause of thermal increasing and smoking. To avoid heavy shock impact applying to products is strictly required.
- 4. Ultrasonic cleaning should be avoided to prevent damage to the TCXO.
- 5. Do Not Use Ultrasonic-Wave Soldering or Wave Solder with Package Immersed in Solder.

#### **Notes of the Storage:**

- 1. To keep products under the condition at the room temperature (-5~35 deg C) with normal humidity (45~75%). Absorption of moisture and dewdrop may make inferiority of characteristics and a short circuit.
- Oxidization of terminals shall make the solderability more inferior. Dusts and corrosive gas will make a cause of the open or short circuit. Keep it in the clean place where is not in dusty and no corrosive gas.
- 3. Use the unti-static material to the storage package.
- 4. Don't put any excess weight to the TCXO in the storage process.
- 5. Don't move the product from the cold place to the hot place in the short time, otherwise it may make some dew-drop, then a short circuit may happen in case.
- 6. Storage periods should be maximum 6 months under condition of above item 1 after delivery from TST factory.
- 7. Once open the bag, there is possibility of electrical characteristics deterioration due to absorption of moisture. So, please use parts within 7 days after opening the bag.
- **8.** If you have to keep parts without using after opening the bag, please put the drying agent in the bag, fold the bag and keep it in the place where temperature and humidity are controlled (nitrogen atmosphere box etc.)