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Product Specifications Approval Sheet

Product Name: TCXO SMD 2.0x1.6 26.0MHz

TST Part No.: TX0889BCAO54

Customer Part No.:_____

Company:	_
Division:	
Approved by:	
Date:	

Checked by:	Tom Liu	Tom				
Approved by:	Kelly Huang	Kelly	Juane			
Date:	03/19/2021		V			

- 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.

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TAI-SAW TECHNOLOGY CO., LTD. TCXO SMD 2.0x1.6 26.0MHz

MODEL TX0889BCAO54 NO.:

REV. NO.: 1

Revise:

Rev.	Rev.Page	Rev. Account	Date	Ref. No.	Revised by
1	N/A	Initial release	03/19/21'	N/A	Tom Liu
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Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

TCXO SMD 2.0x1.6 26.0MHz NO.:

MODEL

TX0889BCAO54

- 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:

TX0889BCAO54	Specifications				
Nominal Frequency, Fo	26.00000 MHz				
Storage Temperature Range	-40°C to +85°C				
Operating Temperature Range	-40°C to +85°C				
Power Supply Voltage, Vcc	1.8 V ± 5%				
Output Voltage with Load 10pF//10KΩ, Vout	0.8 Vp-p min				
Power Supply Current, Icc	2.0 mA max				
Frequency Tolerance as received	+/- 1.0 ppm max @ 25°C +/- 2°C				
Frequency Tolerance after reflow	+/- 2.0 ppm max @ 25°C +/- 3°C				
Frequency Stability a. Vs. Temperature (-40~85°C) b. Vs. Load varied 10pF//10KΩ+/-10% c. Vs. Supply Voltage varied Vcc+/-5%	+/- 2.0 ppm reference to 25°C +/- 0.2 ppm +/- 0.2 ppm				
Start Up Time (90% of final RF level in Vp-p)	2.0 msec max.				
Aging	+/-1.0 ppm/ first year @25°C				
Harmonics	-5.0 dBc max				
Marking	Laser marking				

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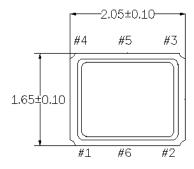
REV. NO.: 1

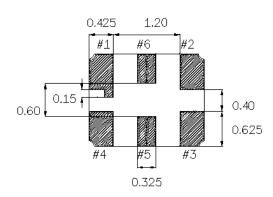
RoHS Compliant

ead-free soldering

	4/8
SSB Phase Noise (@1Hz Carrier Offset)	-51 dBc/Hz max
(@10Hz Carrier Offset)	-81 dBc/Hz max
(@100Hz Carrier Offset)	-105 dBc/Hz max
(@1kHz Carrier Offset)	-130 dBc/Hz max
(@10kHz Carrier Offset)	-144 dBc/Hz max
(@100kHz Carrier Offset)	-148 dBc/Hz max

Mechanical Dimensions (mm):

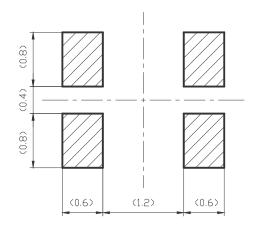




	Pin Connection
#1	GND
#2	GND
#3	Output
#4	+Vcc
#5	No connect
#6	No connect

0.7p±q.10

Recommended Land Pattern: (unit: mm)



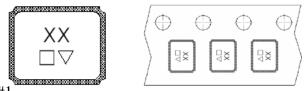
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Marking:

Line 1: Frequency (26) Line 2: Product Code :

is TST internal tracking code) + Date Code of Year/Month : \bigtriangledown

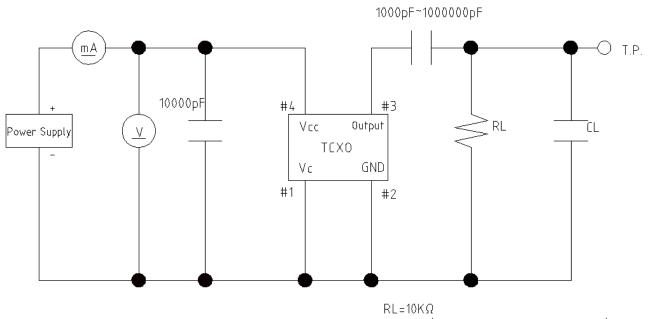


Pin#1

 \bigtriangledown : 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	v	w	х	у	z
2018	А	В	С	D	E	F	G	н	J	к	L	М
2019	Ν	Ρ	Q	R	S	Т	U	V	W	х	Y	Z
2020	а	b	С	d	е	f	g	h	i	j	k	m
2021	n	р	q	r	s	t	u	v	w	x	у	z

Recommended Circuit



CL=10pF(Include Jig stray capacitance)

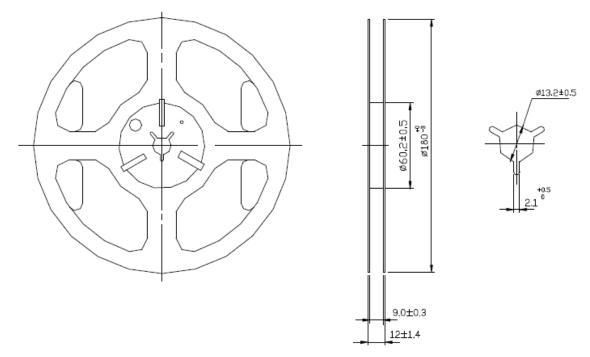
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TST DCC

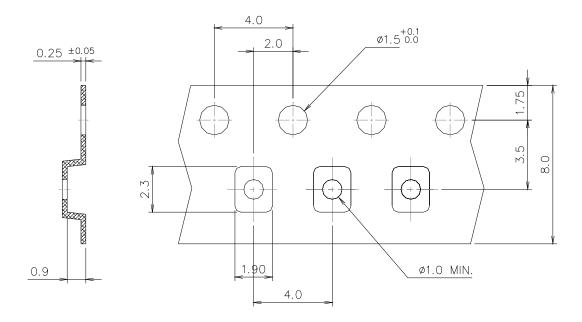
Release document

5/8

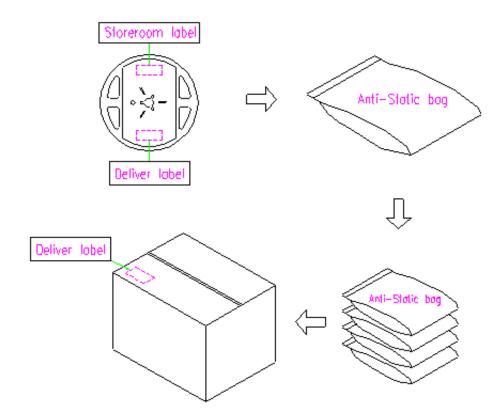
Reel Dimension



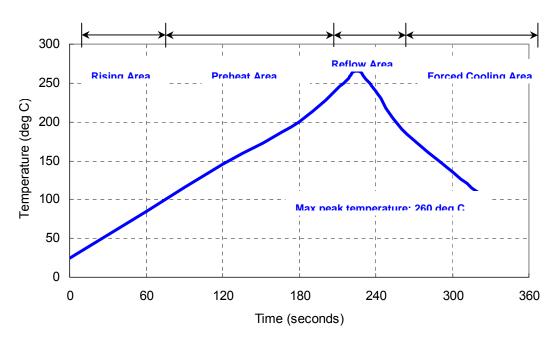
Tape Dimensions (mm)



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.
- 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:

- 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 anti-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.
- 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.)