

ZTAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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: <u>tstsales@mail.taisaw.com</u> Web: <u>www.taisaw.com</u>

Product Specifications Approval Sheet

Product Description: Crystal Unit SMD 3.2x2.5 26.00MHz

TST Part No.: TZ2511B

Customer Part No.:_____

Customer signature r	required	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Chia Haur Rau	CH
Approved by:	Kelly Huang	Kully Huang
Date:	06/15/2017	

- 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. Crystal Unit SMD 3.2x2.5 26.00MHz

TZ2511B MODEL NO.:

REV. NO.: 3

Revise:

Rev.	Rev.	Rev. Account	Date	Ref. No.	Revised by
	Page				
1	N/A	Initial release	04/01/16'	N/A	Chia Haur Rau
2	3	Change FL tolerance to +/-7	03/17/17'	ECN-201700090	Chia Haur Rau
		ppm			
3	3	Add TS spec	06/15/17	ECN-201700242	Chia Haur Rau



TAI-SAW TECHNOLOGY CO., LTD.

Crystal Unit SMD 3.2x2.5 26.00MHz

MODEL NO.: TZ2511B

REV. NO.: 3

Features:

- Surface Mount Hermetic Package
- Excellent Reliability Performance
- Good Frequency Perturbation and Stability over temperature
- Ultra Miniature Package

Description and Applications:

Surface mount 3.2mmx2.5mm crystal unit for customer for use in wireless communications devices, especially for a need of ultra miniature package for mobility.

Electrical Specifications:

TZ2511B	Specification				
Nominal Frequency	26.000000 MHz				
Mode of Oscillation	Fundamental				
Storage Temperature Range	-40°C to +105°C				
Operating Temperature Range	-20°C to +85°C				
Frequency Stability over Operating Temperature	+/- 10 ppm (referred to the value at 25°C)				
Frequency Make Tolerance (FL)	+/- 7 ppm @ 25°C +/- 3°C				
Equivalent Series Resistance (ESR)	50 Ω max.				
Nominal Drive Level	10uW typical and 100uW max				
Shunt Capacitance (Co)	3.0 pF max				
Load Capacitance (CL)	11.5 pF				
Trim Sensitivity (TS)	9.6ppm/pF typical @ CL=11.5pF				
Aging	+/-2ppm/year				
Insulation Resistance	500 MΩ min./DC 100V				
Marking	Laser Marking				
Unit Weight	0.017+/-0.005 g				
TAI-SAW TE	CHNOLOGY CO., LTD. D. I. I.				

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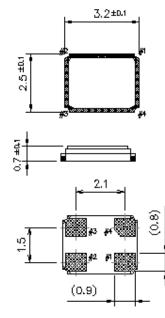
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Release document

RoHS Compliant

Lead-free soldering

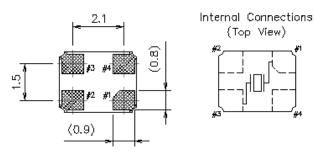
Mechanical Dimensions (mm): Base 1



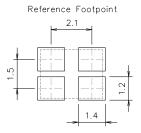
	Pin Connection
#1 pin	IN/OUT
#2 pin	GND
#3 pin	IN /OUT
#4 pín	GND

Internal Connections (Top View)

Base 2

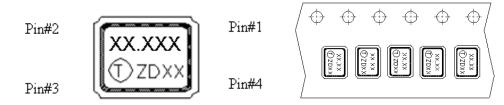


Recommended Land Pattern: (unit: mm)



Marking:

Line 1: Frequency (26.000) Line 2: TST Logo + Crystal Product Code + Date Code + Traceability code (1 or 2 letters)



The inner vision of Pin#1, Pin#4 side is XTAL blank mounting pad.

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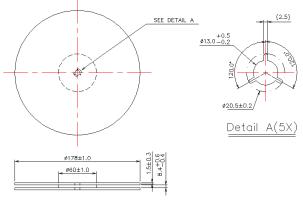
Product Code Table

	2013	2014	2015	2016
Year	2017	2018	2019	2020
	2021	2022	2023	2024
product code	Z	Z	<u>Z</u>	Ξ

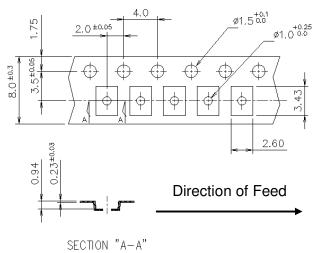
Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	I	J	К	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	s	t	u	v	w	х	у	z

Reel Dimensions (mm):



Tape Dimensions (mm):



[NOTE]

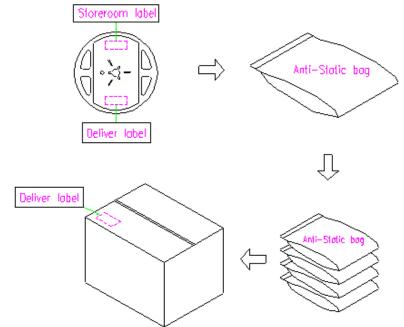
- 1 UNIT : mm.
- 2 UNLESS OTHERWISE SPECIFIED TOLERANCEON DIM. +/-0.1mm.
- 3 MATERIAL : CONDUCTIVE POLYSTYRENE.
- 4 COLOR : BLACK.
- 5 10 PITCHES CUMULATIVETOLERANCE +/-0.2mm.

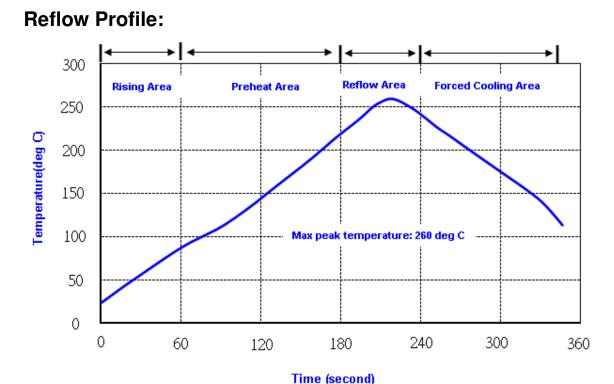
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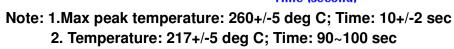
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Packing Quantity/Packing:

3K pcs maximum per reel







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Reliability Specifications

Test name								
Mechanical characteristics								
resistance to Soldering heat (IR reflow)	Temp/ Duration : 265°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)						
Vibration	Total peak amplitude : 1.5mmVibration frequency: 10 to 2000 HzSweep period: 20 minuteVibration directions: 3 mutually perpendicularDuration: 2 hr / direc.	MIL-STD 202G method 204						
Mechanical Shock	directions : 3 impacts per axis Acceleration : 3000g's, +20/-0 % Duration : 0.3 ms (total 18 shocks) Waveform : Half-sine	MIL-STD 202G method 213						
Solderability	Solder Temperature:265±5℃ Duration time: 5±0.5 seconds.	J-STD-002						
Environmental	characteristics							
Thermal Shock	Heat cycle conditions -40 °C (30min) ←→ 85 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.8						
Humidity test	Temperature : 85 ± 2 ℃ Relative humidity : 85% Duration : 96 hours	MIL-STD 202G method 103						
Dry heat (Aging test)	Temperature : 125 ± 2 ℃ Duration : 168 hours	MIL-STD 202G method 108A						
Cold resistance (Low Temp Storage)	Temperature :-40 ± 2 ℃ Duration : 96 hours	IEC 60068-2-1						

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单击下面可查看定价,库存,交付和生命周期等信息

>>TAI-SAW(台湾嘉硕)