

TAI-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: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

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

TST Part No.: TZ0311B

Customer Part No.:_____

Customer signature	required	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Chia Haur Rau	CH
Approved by:	Kelly Huang	Kelly Guang
Date:	12/02/2015	JV

- 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.

TAI-SAW TECHNOLOGY CO., LTD.

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 3.2x2.5 26.00MHz

MODEL NO.: TZ0311B

REV. NO.: 9

Revise:

Rev.	Rev.	Rev. Account	Date	Ref. No.	Revised by
	Page				
1	N/A	Initial release	04/15/04'	N/A	Ann Liu
2	3	Spec updated	09/20/04	N/A	Ann Liu
3	3	Spec updated	09/30/04	N/A	Ann Liu
4	3	Spec updated	08/12/05	N/A	Ann Liu
5	3	Spec updated	06/12/06	N/A	Ann Liu
6	3	Spec updated	08/28/06	N/A	Ann Liu
7	3	Changed T/R drawing	07/01/09	ECN-200900240	Ann Liu
8	4	Pin connection to be updated	01/10/12	ECN-201000472	Ann Liu
9	3	Change Nominal Drive Level to	12/02/15	ECN-201500533	Chia Haur Rau
		100uW max			



TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 3.2x2.5 26.00MHz

MODEL NO.: TZ0311B

REV. NO.: 9

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:

TZ0311B	Specification					
Nominal Frequency	26.000000 MHz					
Mode of Oscillation	Fundamental					
Storage Temperature Range	-40°C to +85°C					
Operating Temperature Range	-20°C to +75°C					
Frequency Stability over Operating Temperature	+/- 9 ppm (referred to the value at 25°C)					
Frequency Make Tolerance (FL)	+/- 10 ppm @ 25°C +/- 3°C					
Equivalent Series Resistance (ESR)	40 Ω max.					
Nominal Drive Level	10uW typical and 100uW max					
Shunt Capacitance (Co)	2.0 pF max					
Load Capacitance (CL)	9 pF					
Pulling Sensitivity	16.5 ppm/pF +/-10% (@ 9 pF Load)					
Insulation Resistance	500 MΩ min./DC 100V					
Aging	+/-1ppm/year					
Marking	Laser Marking					
Unit Weight	0.017+/-0.005 g					
TAI-SAW	TECHNOLOGY CO., LTD. TST DCC					

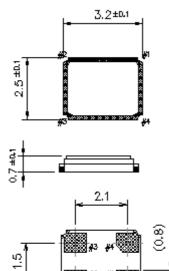
Downloaded From Oneyac.com

Release document

RoHS Compliant Lead free Lead-free soldering

Mechanical Dimensions (mm):

Base 1



42 B

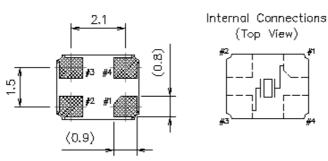
(0.9)

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

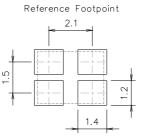
Internal Connections (Top View)



Base 2



Recommended Land Pattern: (unit: mm)



Marking:

Line 1: Frequency (26.00)

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



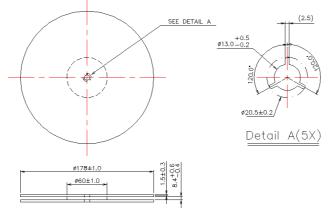
Product Code Table

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

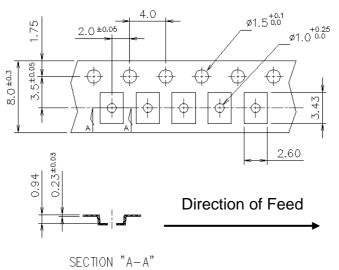
Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	Е	F	G	Н	I	J	K	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):

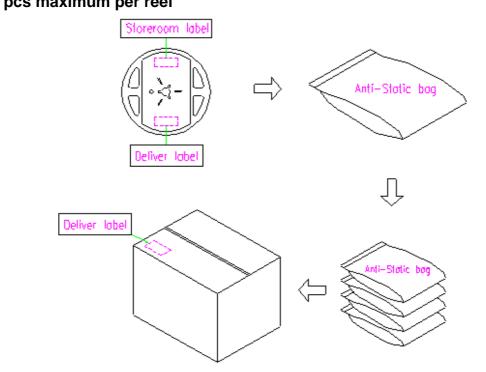


[NOTE]

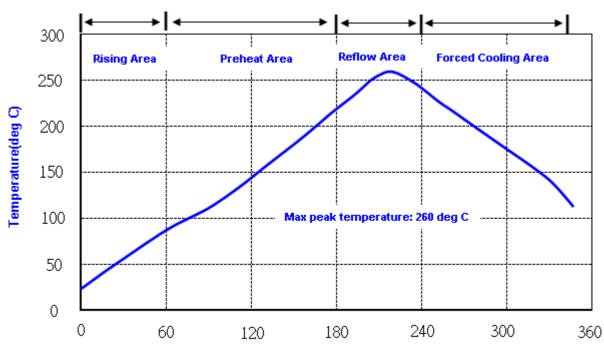
- 1 UNIT : mm.
- 2 UNLESS OTHERWISE SPECIFIED TOLERANCEON DIM. +/-0.1mm.
- 3 MATERIAL : CONDUCTIVE POLYSTYRENE.
- 4 COLOR : BLACK.
- 5 10 PITCHES CUMULATIVETOLERANCE +/-0.2mm.

TAI-SAW TECHNOLOGY CO., LTD. Downloaded From Oneyac.com

Packing Quantity/Packing: 3K pcs maximum per reel









TAI-SAW TECHNOLOGY CO., LTD.

Downloaded From Oneyac.com

Reliability Specifications

Test name	Test process / method	Reference standard						
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)						
		000(001)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°C 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 °C Relative humidity : 85% Duration : 96 hours	MIL-STD 202G method 103						
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 168 hours	MIL-STD 202G method 108A						
Cold resistance (Low Temp Storage)	Temperature : -40 ± 2 °C Duration : 96 hours	IEC 60068-2-1						

Downloaded From Oneyac.com

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)