

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 32.00MHz

TST Part No.: TZ0375A

Customer Part No.:_____

Customer signature r	equired	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Ann Liu	
Approved by:	Robert Chang	
Date:	7/01/2009	

- 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 32.00MHz

MODEL NO.: TZ0375A

REV. NO.: 4

Revise:

Rev.	Rev.	Rev. Account	Date	Ref. No.	Revised by
	Page				
1	N/A	Initial release	04/05/04	N/A	Ann Liu
2	3	Spec. updated	08/12/05	N/A	Ann Liu
3	3	Spec. updated	08/08/06	N/A	Ann Liu
4	5	Changed T/R drawing	07/01/09	ECN-200900240	Ann Liu

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 3.2x2.5 32.00MHz

MODEL NO.: TZ0375A

REV. NO.: 4

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:

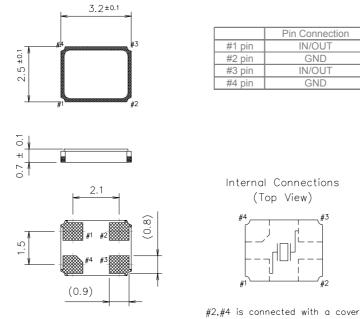
TZ0375A	Specification
Nominal Frequency	32.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +70°C
Frequency Stability over Operating Temperature	+/- 10 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/- 10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	50 Ω max.
Nominal Drive Level	10 uW
Shunt Capacitance (Co)	3.0 pF max
Load Capacitance (CL)	12 pF
.Insulation Resistance	500 MΩ min./DC 100V
Aging	+/-1ppm/year
Marking	Laser Marking
Unit Weight	0.017+/-0.005 g



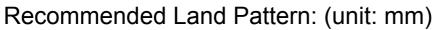
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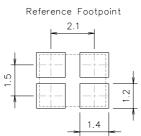
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Mechanical Dimensions (mm):



GND IN/OUT GND

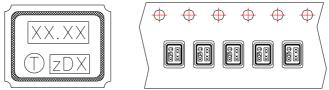




Marking:

Line 1: Frequency (32.00)

Line 2: TST Logo + Crystal Product Code + Date Code + Model Code



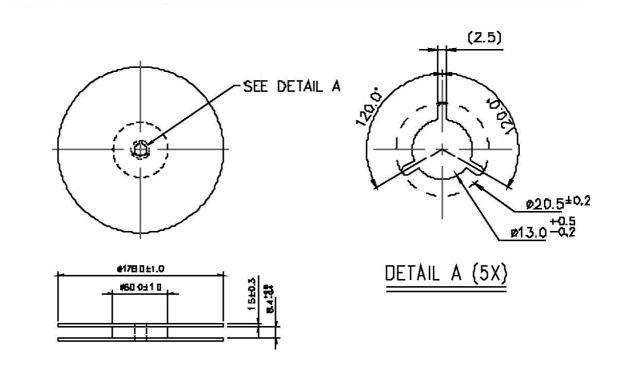
Product Code Table

	2009	2010	2011	2012
Year	2013	2014	2015	2016
	2017	2018	2019	2020
product code	Z	Z	<u>Z</u>	Z

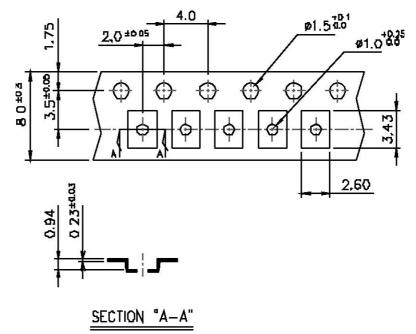
Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	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

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Tape Dimensions (mm):



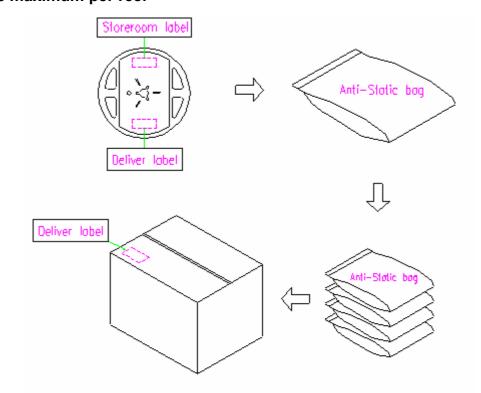
[NOTE]

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

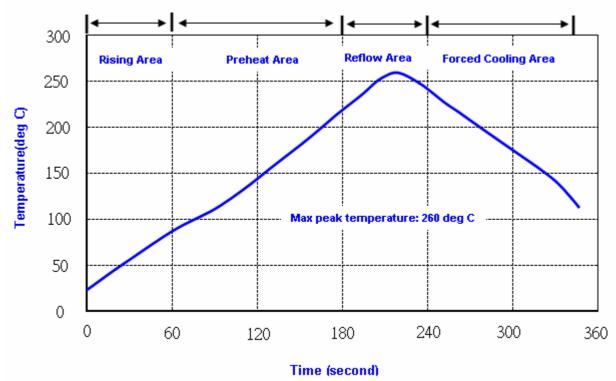
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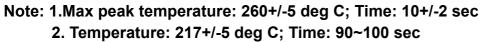
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Packing Quantity/Packing: 3K pcs maximum per reel



Reflow Profile:





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Reliability Specifications

Test name	Test process / method	Reference standard						
Mechanical characteristics								
resistance to Soldering heat (IR reflow)	Temp./ Duration : 260°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)						
Vibration	Total peak amplitude: 1.5mmVibration frequency: 10 to 55 HzSweep period: 1.0 minuteVibration directions: 3 mutually perpendicularDuration: 2 hr / direc.	MIL-STD 202F method 201A						
Mechanical Shock	Duration: 2 hr / direc.directions: 3 impacts per axisAcceleration : 3000g's, +20/-0 %Duration: 0.3 ms (total 18 shocks)Waveform: Half-sine	MIL-STD 202F method 213C						
Solderability	Solder Temperature:265±5°C Duration time: 5±0.5 seconds.	MIL-STD 883G method 2003						
Environmenta	I characteristics							
Thermal Shock	Heat cycle conditions -55 °C (30min) ←→ 125 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.7						
Humidity test	Temperature : 70 ± 2 °C Relative humidity : 90~95% Duration : 96 hours	MIL-STD 202F method 103B						
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 168 hours	MIL-STD 883G method 1008.2 condition C						
PCT test	Pressure: 2.06kg/cm ² (2.03*10 ⁵ pa) Temperature : 121 ± 2 °C Relative humidity : 100% Duration : 24 hours	EIAJED-4701-3 B-123A						

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TST DCC Release document

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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)