

TAI-SAW TECHNOLOGY CO., LTD. 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: 0	Crystal Unit SMD	2.5x2.0 26.0MHz
TST Part No.: TZ2719)A	
Customer Part No.:		
Customer signature red	quired	
Company:		
Division:		
Approved by :		
Date:		
		Y- (
Checked by:	Yifan Chen	(Han
Approved by:	Kelly Huang	Kelly Huang
Date:	04/03/2018	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.



TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 2.5x2.0 26.0MHz

MODEL NO.: TZ2719A **REV. NO.: 3**

Revise:

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Revised by
1	N/A	Initial release	02/23/13'	N/A	Yifan Chen
2	4	Change Pin Connection	07/03/15	ECN-201500067	Yifan Chen
3	7	Add free drop test in RA table	04/03/18'	ECN-201800150	Yifan Chen
		r			



MODEL NO.: TZ2719A REV. NO.: 3

Features:

- Surface Mount Hermetic Package
- Excellent Reliability Performance
- Good Frequency Perturbation and Stability over temperature
- Ultra Miniature Package
- Moisture Sensitivity Level (MSL): Level-1



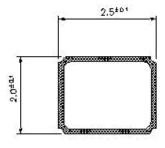
Description and Applications:

Surface mount 2.5mmx2.0mm crystal unit for use in wireless communications devices, especially for a need of ultra miniature package for mobility.

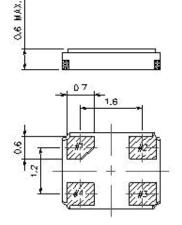
Electrical Specifications:

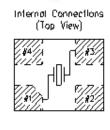
TZ2719A	Specification
Nominal Frequency	26.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +105°C
Operating Temperature Range	-20°C to +85°C
Frequency Stability over Operating Temperature Range	+/-10 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/-10 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	30 Ω max
Nominal Drive Level	10uW typical and 100uW max
Shunt Capacitance (Co)	3.0 pF max
Load Capacitance (CL)	7.5 pF
Insulation Resistance	500 MΩ min./DC 100V
Marking	Laser Marking
Unit Weight	9.5 +/-0.5mg

Mechanical Dimensions (mm): Base

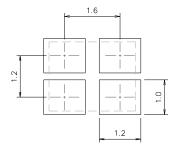


	Pin Connection
#1 pin	GND
#2 pin	GND
#3 pin	IN/OUT
#4 pin	GND





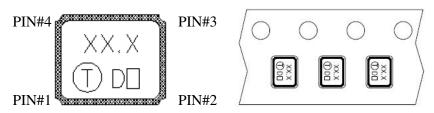
Recommended Land Pattern: (unit: mm)



Marking:

Line 1: Frequency (26.0)

Line 2: TST Logo + Date Code + Product Code (is TST internal tracking code, could be a~z and A~Z)



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

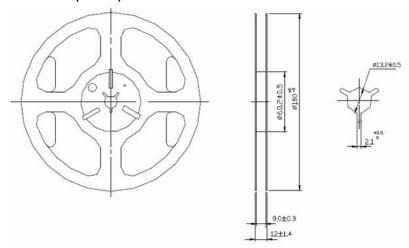
Date Code Table

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	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	С	d	е	f	g	h	i	j	k	1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
	W IN4 I	W 1142	WICHS	*****	*****	******	WIXT	******	WICTS	*****	*****	WINDE

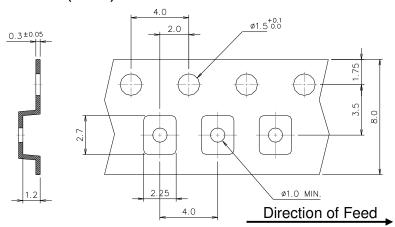
Product Code Table: (Under line With Even Year and Odd Year for Nothing)

	Product Code					
2013	2015	2017	2019	2021	2023	
2014	2016	2018	2020	2022	2024	

Reel Dimensions (mm):



Tape Dimensions (mm):

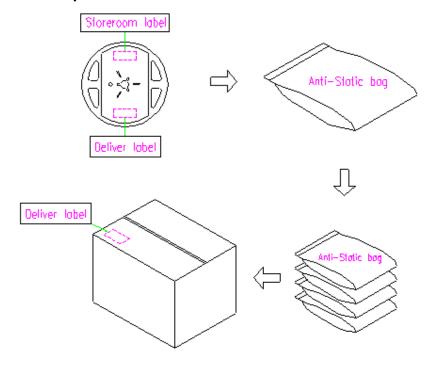


[NOTE]:

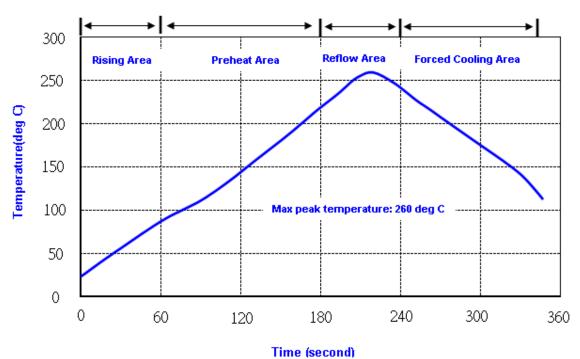
- 1. Unless otherwise specified tolerance on dimension +/-0.1 mm.
- 2. Material: conductive polystyrene with color black.
- 3. 10 pitch cumulative tolerance +/-0.2 mm.

Packing Quantity/Packing:

3K pcs maximum per reel



Reflow Profile:



Note: 1.Max peak temperature: 260+/-5 deg C; Time: 10+/-2 sec

2. Temperature: 217+/-5 deg C; Time: 90~100 sec

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)	-300(301)M(II)				
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 2000 Hz Sweep period : 20 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	MIL-STD 202G method 204				
Drop test	150 cm with load on Concrete floor 6 mutually perpendicular x 1time					
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 $^{\circ}$ C (30min) \longleftrightarrow 85 $^{\circ}$ C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.8				
Humidity test	Temperature : $85 \pm 2 ^{\circ}$ C Relative humidity : 85% Duration : 96 hours	MIL-STD 202G method 103				
Dry heat (Aging test)	Duration: 96 hoursTemperature: 125 ± 2 °CDuration: 168 hours	MIL-STD 202G method 108A				
Cold resistance (Low Temp Storage)	Temperature : -40 ± 2 °C Duration : 96 hours	IEC 60068-2-1				

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)