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Product Specifications Approval Sheet

Product Description: Crystal Unit SMD 2.5x2.0 26.00MHz

TST Part No.: TZ3555A

Customer Part No.:

Customer signature r	equired	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Tom Liu	Tom
Approved by:	Kelly Huang	Kelly Huang
Date:	03/30/2020	·] 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.

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 2.5x2.0 26.00MHz

MODEL NO.: TZ3555A

REV. NO.: 1

Revise:

Rev.	Rev.Page	Rev. Account	Date	Ref. No.	Revised by
Rev. 1	Rev.Page N/A	Rev. Account Initial release	Date 03/30/20'	Ref. No. N/A	Revised by Tom Liu

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 2.5x2.0 26.00MHz

MODEL NO.: TZ3555A

REV. NO.: 1

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:

TZ3555A	Specification
Nominal Frequency	26.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +105°C
Operating Temperature Range	-40°C to +85°C
Frequency Stability over Operating Temperature Range	+/-15 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/-7 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	10 Ω min and 60 Ω max
Nominal Drive Level	80uW typical and 200uW max
Drive level Dependency	<0.6 Ω (0.001uW to 100uW)
Frequency Perturbations	0.5ppm max
Variation of ESR over temperature range (ESRmax - ESRmin) / ESRmin	<0.3
Static Temperature Hysteresis	+/-0.4ppm
Shunt Capacitance (Co)	3.0 pF max
Load Capacitance (CL)	19 pF
Aging	+/-1ppm/1 year +/-1.5ppm/2 year +/-5ppm/10 year
Insulation Resistance	500 MΩ min./DC 100V
Marking	Laser Marking
Unit Weight	9.5 +/-0.5mg



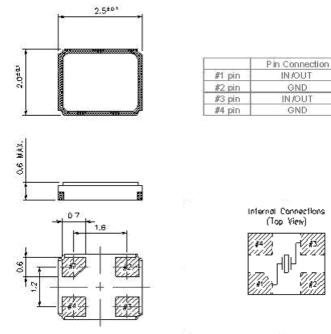


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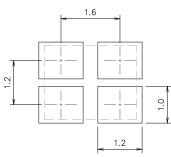
TST DCC Release document 3/7

Mechanical Dimensions (mm):

Base



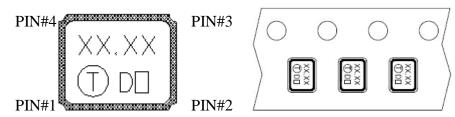
Recommended Land Pattern: (unit: mm)



Marking:

Line 1: Frequency (26.00)

Line 2: TST Logo + Date Code + Product Code (\Box is TST internal tracking code, could be a~z and A~Z, 1 or 2 letters, underline or no underline)



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
А	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
Ν	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	x	у	z
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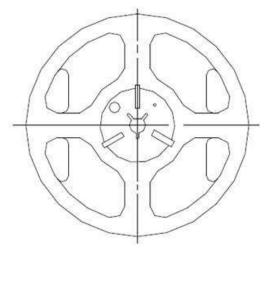
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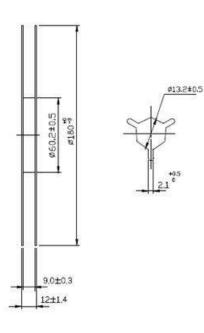
TST DCC Release document

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

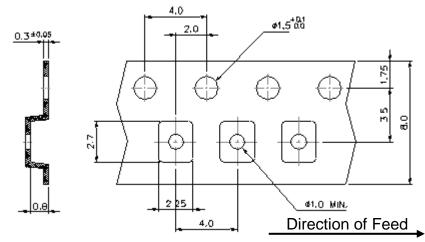
Product Code Table: (Under line With Even Year and Odd Year for Nothing)

Reel Dimensions (mm):





Tape Dimensions (mm):

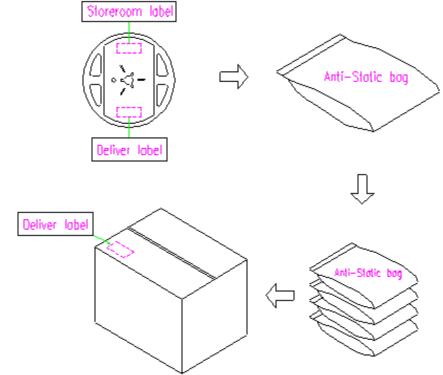


[NOTE]:

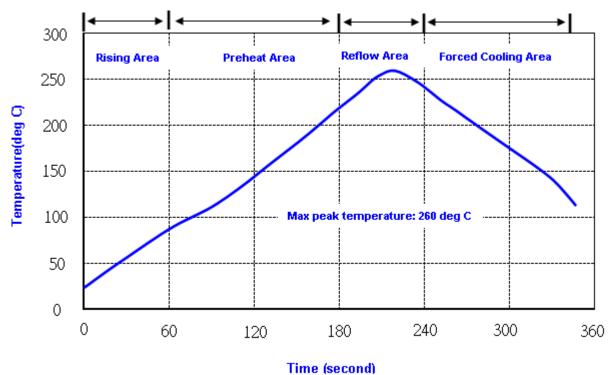
- 1. Unless otherwise specified tolerance on dimension +/-0.1 mm.
- 2. Material: conductive polystyrene with color black.
- 3. 10 pitch cumulative tolerance +/-0.2 mm.

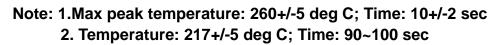
Packing Quantity/Packing:

3K pcs maximum per reel









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TST DCC Release document

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)					
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					